McGill University

ANNUAL CALENDAR

FOR SESSION 1904-1905

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FOR SESSION 1903-1904

Montreal:
1904

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ANNUAL CALENDAR

OF

McGILL COLLEGE

AND

UNIVERSITY,

MONTREAL.

FOUNDED UNDER BEQUEST OF THE HON. JAMES McGILL
ERECTED INTO A UNIVERSITY BY ROYAL CHARTER
IN 1821, AND RE-ORGANIZED BY AN
AMENDED CHARTER IN 1852.

SESSION 1904-1905

Montreal:

PRINTED FOR THE UNIVERSITY BY THE GAZETTE PRINTING COMPANY.

1904.

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1904/05

The *List of Graduates*, corrected to July, 1903, is published separately, as are also the Examination Papers for each Session (price 75 cents). These can be obtained on application to the Registrar.

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SEPTEMBER, 1904.

1	Thursday	Normal School opens.
2	Friday	
3	Saturday	Meeting of Faculty of Medicine.
4	SUNDAY	
5	Monday	Meeting of Faculty of Applied Science.
6	Tuesday	
7	Wednesday	
8	Thursday	Finance Committee.
9	Friday	
10	Saturday	
11	SUNDAY	
12	Monday	Matriculation, Exhibition, Scholarship, Supplemental Examinations in Arts. Register opens for students in Medicine.
13	Tuesday	Examinations in Arts continued.
14	Wednesday	
15	Thursday	
16	Friday	Meeting of Governors.
17	Saturday	
18	SUNDAY	
19	Monday	Meeting of Faculty of Arts. College Grounds Committee. Engineering Building Committee. Chemistry and Mining Building Committee.
20	Tuesday	Meeting of Examiners. Examinations in Summer Reading, Applied Science.
21	Wednesday	Lectures in all Faculties begin. Exemption Examination in English, Faculty Applied Science. Conservatorium of Music opens.
22	Thursday	
23	Friday	
24	Saturday	
25	SUNDAY	
26	Monday	
27	Tuesday	
28	Wednesday	
29	Thursday	
30	Friday	Meeting of Faculty of Arts.

OCTOBER, 1904.

1	Saturday	Summer Essays in Applied Science to be sent in. Meeting of Faculty of Medicine.
2	SUNDAY	
3	Monday	Meeting of Faculty of Applied Science.
4	Tuesday	
5	Wednesday	Normal School Committee. Meeting of Academic Board.
6	Thursday	Founder's Birthday. University Lecture. Physics Building Committee.
7	Friday	Meeting of Faculty of Arts
8	Saturday	
9	SUNDAY	
10	Monday	William Molson Hall opened, 1862. Museum Committee. Library Committee.
11	Tuesday	
12	Wednesday	Regular Meeting of Corporation. Annual Report to the Visitor.
13	Thursday	Finance Committee.
14	Friday	Sports Day.
15	Saturday	
16	SUNDAY	
17	Monday	Engineering Building Committee. Chemistry and Mining Building Committee. College Grounds Committee.
18	Tuesday	
19	Wednesday	
20	Thursday	
21	Friday	Meeting of Governors.
22	Saturday	
23	SUNDAY	
24	Monday	
25	Tuesday	
26	Wednesday	
27	Thursday	
28	Friday	Meeting of Faculty of Arts.
29	Saturday	
30	SUNDAY	
31	Monday	New Library opened, 1893.

NOTE.—Meetings of the Faculty of Arts are held at 4 P.M. unless otherwise specified.

NOVEMBER, 1904.

1	Tuesday	
2	Wednesday	
3	Thursday	
4	Friday	
5	Saturday	Meeting of Faculty of Medicine.
6	SUNDAY	
7	Monday	Meeting of Faculty of Applied Science.
8	Tuesday	
9	Wednesday	Edward VII born, 1841.
10	Thursday	Finance Committee.
11	Friday	
12	Saturday	
13	SUNDAY	
14	Monday	
15	Tuesday	
16	Wednesday	
17	Thursday	
18	Friday	Meeting of Governors. Meeting of Faculty of Arts.
19	Saturday	
20	SUNDAY	
21	Monday	Engineering Building Committee. Chemistry and Mining Building Committee. College Grounds Committee.
22	Tuesday	
23	Wednesday	
24	Thursday	
25	Friday	
26	Saturday	
27	SUNDAY	
28	Monday	
29	Tuesday	
30	Wednesday	

DECEMBER, 1904.

1	Thursday	
2	Friday	
3	Saturday	Meeting of Faculty of Medicine.
4	SUNDAY	
5	Monday	Meeting of Faculty of Applied Science.
6	Tuesday	
7	Wednesday	Meeting of Academic Board.
8	Thursday	Finance Committee Physics Building Committee.
9	Friday	Meeting of Faculty of Arts.
10	Saturday	
11	SUNDAY	
12	Monday	Museum Committee. Library Committee.
13	Tuesday	
14	Wednesday	Regular Meeting of Corporation.
15	Thursday	
16	Friday	Meeting of Governors.
17	Saturday	
18	SUNDAY	
19	Monday	Engineering Building Committee. Chemistry and Mining Building Committee. College Grounds Committee.
20	Tuesday	
21	Wednesday	
22	Thursday	Term ends in all Faculties.
23	Friday	Meeting of Faculty of Arts.
24	Saturday	
25	SUNDAY	Christmas-Day.
26	Monday	
27	Tuesday	
28	Wednesday	
29	Thursday	
30	Friday	
31	Saturday	

1	SUNDAY	
2	Monday	Meeting of Faculty of Applied Science.
3	Tuesday	
4	Wednesday	Lectures in Arts, Law, Applied Science and Medicine resumed. Normal School Committee.
5	Thursday	
6	Friday	
7	Saturday	Meeting of Faculty of Medicine.
8	SUNDAY	
9	Monday	
10	Tuesday	
11	Wednesday	
12	Thursday	Finance Committee.
13	Friday	Meeting of Faculty of Arts.
14	Saturday	
15	SUNDAY	
16	Monday	Engineering Building Committee. Chemistry and Mining Building Committee. College Grounds Committee.
17	Tuesday	
18	Wednesday	
19	Thursday	
20	Friday	Meeting of Governors.
21	Saturday	
22	SUNDAY	Queen Victoria died, 1901.
23	Monday	
24	Tuesday	
25	Wednesday	
26	Thursday	
27	Friday	
28	Saturday	
29	SUNDAY	
30	Monday	
31	Tuesday	Theses for M.A. and LL.D. to be sent in.

FEBRUARY, 1905.

1	Wednesday	Meeting of Academic Board.
2	Thursday	Physics Building Committee.
3	Friday	Meeting of Faculty of Arts.
4	Saturday	Meeting of Faculty of Medicine.
5	SUNDAY	
6	Monday	Meeting of Faculty of Applied Science. Museum Committee. Library Committee.
7	Tuesday	
8	Wednesday	Regular Meeting of Corporation.
9	Thursday	Finance Committee.
10	Friday	
11	Saturday	
12	SUNDAY	
13	Monday	
14	Tuesday	
15	Wednesday	
16	Thursday	
17	Friday	Meeting of Governors. Meeting of Faculty of Arts.
18	Saturday	
19	SUNDAY	
20	Monday	Engineering Building Committee. Chemistry and Mining Building Committee. College Grounds Committee.
21	Tuesday	
22	Wednesday	
23	Thursday	
24	Friday	Physics and Engineering Buildings opened 1893. Meeting of Faculty of Arts.
25	Saturday	
26	SUNDAY	
27	Monday	
28	Tuesday	

MARCH, 1905.

1	Wednesday	Meeting of Academic Board.
2	Thursday	
3	Friday	
4	Saturday	Meeting of Faculty of Medicine.
5	SUNDAY	
6	Monday	Meeting of Faculty of Applied Science.
7	Tuesday	
8	Wednesday	Ash Wednesday. No lectures.
9	Thursday	Finance Committee.
10	Friday	
11	Saturday	
12	SUNDAY	
13	Monday	
14	Tuesday	
15	Wednesday	
16	Thursday	
17	Friday	Meeting of Governors. Meeting of Faculty of Arts. Reports of Attendance on Lectures.
18	Saturday	
19	SUNDAY	
20	Monday	Engineering Building Committee. Chemistry and Mining Building Committee. College Grounds Committee.
21	Tuesday	
22	Wednesday	
23	Thursday	
24	Friday	
25	Saturday	
26	SUNDAY	
27	Monday	
28	Tuesday	
29	Wednesday	
30	Thursday	
31	Friday	Last day of Lectures in Arts, Law and Applied Science.

APRIL, 1905.

1	Saturday	Meeting of Faculty of Medicine
2	SUNDAY	
3	Monday	Meeting of Faculty of Applied Science.
4	Tuesday	
5	Wednesday	Normal School Committee.
6	Thursday	Physics Building Committee. Examinations in Arts begin.
7	Friday	Meeting of Faculty of Arts.
8	Saturday	
9	SUNDAY	
10	Monday	Museum Committee. Library Committee.
11	Tuesday	
12	Wednesday	Regular Meeting of Corporation.
13	Thursday	Finance Committee.
14	Friday	Winter term, Faculty of Medicine, ends. Meeting of Faculty of Arts.
15	Saturday	
16	SUNDAY	
17	Monday	Engineering Building Committee. Chemistry and Mining Building Committee. College Grounds Committee.
18	Tuesday	
19	Wednesday	
20	Thursday	
21	Friday	Good Friday. Easter vacation begins. Meeting of Governors.
22	Saturday	Meeting of Faculty of Arts.
23	SUNDAY	Easter Sunday.
24	Monday	
25	Tuesday	Easter vacation ends. Spring term begins, Faculty of Medicine.
26	Wednesday	
27	Thursday	
28	Friday	Convocation for Degrees in Arts, Law, and Applied Science
29	Saturday	
30	SUNDAY	

MAY, 1905.

1	Monday	Meeting of Faculty of Applied Science. Summer Classes in Arts begin. Meeting of Examiners for School Examinations.
2	Tuesday	
3	Wednesday	
4	Thursday	
5	Friday	
6	Saturday	Meeting of Faculty of Medicine.
7	SUNDAY	
8	Monday	
9	Tuesday	
10	Wednesday	
11	Thursday	Finance Committee.
12	Friday	
13	Saturday	
14	SUNDAY	
15	Monday	Engineering Building Committee. Chemistry and Mining Building Committee. College Grounds Committee.
16	Tuesday	
17	Wednesday	
18	Thursday	
19	Friday	Meeting of Governors. Lectures end, Faculty of Medicine.
20	Saturday	
21	SUNDAY	
22	Monday	
23	Tuesday	
24	Wednesday	
25	Thursday	
26	Friday	
27	Saturday	
28	SUNDAY	
29	Monday	Examinations begin, Faculty of Medicine.
30	Tuesday	
31	Wednesday	Normal School closes.

JUNE, 1905.

1	Thursday	
2	Friday	
3	Saturday	Meeting of Faculty of Medicine.
4	SUNDAY	
5	Monday	
6	Tuesday	
7	Wednesday	Normal School Committee.
8	Thursday	Finance Committee. Physics Building Committee.
9	Friday	Spring Term ends, Faculty of Medicine. Convocation for degrees in Medicine. Summer Classes in Arts end.
10	Saturday	
11	SUNDAY	Whit Sunday.
12	Monday	Examinations begin for Matriculation, First Year Exhibitions in Arts, and Associate in Arts. Museum Committee. Library Committee.
13	Tuesday	
14	Wednesday	Regular Meeting of Corporation.
15	Thursday	
16	Friday	Meeting of Governors.
17	Saturday	
18	SUNDAY	Trinity Sunday.
19	Monday	Engineering Building Committee. Chemistry and Mining Building Committee. College Grounds Committee.
20	Tuesday	
21	Wednesday	
22	Thursday	
23	Friday	
24	Saturday	
25	SUNDAY	
26	Monday	
27	Tuesday	
28	Wednesday	
29	Thursday	
30	Friday	

JULY, 1905.

1	Saturday	Meeting of Faculty of Medicine.
2	SUNDAY	
3	Monday	
4	Tuesday	
5	Wednesday	
6	Thursday	
7	Friday	
8	Saturday	
9	SUNDAY	
10	Monday	
11	Tuesday	
12	Wednesday	
13	Thursday	
14	Friday	
15	Saturday	
16	SUNDAY	
17	Monday	
18	Tuesday	
19	Wednesday	
20	Thursday	
21	Friday	
22	Saturday	
23	SUNDAY	
24	Monday	
25	Tuesday	
26	Wednesday	
27	Thursday	
28	Friday	
29	Saturday	
30	SUNDAY	
31	Monday	

AUGUST, 1905.

1	Tuesday	
2	Wednesday	
3	Thursday	
4	Friday	
5	Saturday	
6	SUNDAY	
7	Monday	
8	Tuesday	
9	Wednesday	
10	Thursday	
11	Friday	
12	Saturday	
13	SUNDAY	
14	Monday	
15	Tuesday	
16	Wednesday	Peter Redpath Museum opened, 1882.
17	Thursday	
18	Friday	
19	Saturday	
20	SUNDAY	
21	Monday	
22	Tuesday	
23	Wednesday	
24	Thursday	
25	Friday	
26	Saturday	
27	SUNDAY	
28	Monday	
29	Tuesday	
30	Wednesday	
31	Thursday	

Buildings and Grounds of McGill University.

McGill University.

GENERAL INFORMATION.

Foundation and Early History.

Almost alone in this respect among Canadian colleges and universities, McGill University owes its origin to a private endowment. Its founder, the Hon. James McGill, from whom the University takes its name, was born on the 6th October, 1744, in Glasgow, Scotland, where he received his early education and training. Emigrating to Canada before the American Revolution, he engaged in the North-West fur trade, then one of the leading branches of business in Canada. Subsequently he settled in Montreal, and, in partnership with his brother, Andrew McGill, became one of its leading merchants, distinguished for his public spirit and his exertions for the advancement of the city. He was lieutenant-colonel and subsequently colonel of the Montreal City Militia; and, in his old age, on the breaking out of the American war of 1812, he became brigadier-general, and was prepared to take the field in defence of his country. He also represented the West Ward of Montreal in the Provincial Legislature, and was afterwards a member of the Legislative and Executive Councils. Cultivating and enjoying the society of the few men of learning then in the colony, he took a special interest in the establishment of an educational system in the Province of Quebec. By his will, bearing date the 8th January, 1811, more than two years before his death, which happened on the 19th December, 1813, he bequeathed his property of Burnside and a sum of £10,000 in money, to found a college in a provincial university, the erection of which had already been provided for by the generosity of the British Government. Three leading citizens of Montreal were among the trustees appointed under his will, who were directed to convey the subject property of the bequest to the Royal Institution for the Advancement of Learning, a body which, in 1802, had been incorporated by the Legislature "for the establishment of Free Schools and the advancement of Learning" in the Province of Quebec. The conditions upon which the property was to be transferred to the Royal Institution for the Advancement of Learning were, mainly, that that Institution should, within ten years after the testator's decease, erect and establish on his Burnside estate "an University or College, for the purposes of education and the advancement of learning in this Province," and that the college, or one of the colleges, in the University, if established, should "be named and perpetually be known and distinguished by the appellation of McGill College." Owing to persistent opposition by the leaders of one section of the people to any system of governmental education and to the refusal by the Legislature to make the grants of land and money which had been promised, the proposed establishment of the provincial university by the British Government was abandoned.

In so far as the McGill College was concerned, however, the Royal Institution at once took action by applying for a Royal Charter. Such a charter was granted in 1821, and the Royal Institution prepared to take possession of the estate. But, owing to protracted litigation, this was not surrendered to them till 1829. Commencing then the work of teaching with two faculties, Arts and Medicine, the record of the first thirty years of the University's existence is an unbroken tale of financial embarrassment and administrative difficulties. The charter was cumbrous and unwieldy, and unsuited to a small college in the circumstances of this country, and the University, with the exception of its medical faculty, became almost extinct. But after thirty years the citizens of Montreal awoke to the value of the institution which was struggling in their midst. Several gentlemen undertook the responsibility of its renovation, and, in 1852, an amended charter was secured. The Governor-General of Canada for the time being, Sir Edmund Head, became interested in its fortunes, and in 1855, with the advent of a new Principal, an era of progress and prosperity began.

Constitution of the University.

By the amended Charter "the Governors, Principal, and Fellows" of the University are constituted a body politic and corporate, with all the usual rights and privileges of corporate bodies. The supreme authority of the University, however, is vested in the Crown, and is exercised by His Excellency the Governor-General of Canada for the time being as **Visitor.** This is a special and important feature of the constitution, for, while it gives the University an imperial character and removes it at once from any merely local or party influence, it secures the patronage of the head of the political system of the country.

The **Governors** of the University are the members of the Royal Institution for the Advancement of Learning, above mentioned, and in them are vested the management of finances, the passing of University statutes and ordinances, the appointment of professors, and other important duties. Their number is limited to fifteen, and vacancies are filled by the nomination of the remaining members, with the approval of the Visitor. The President of the Board of Governors is, *ex-officio,* Chancellor of the University.

The **Principal** is the academic head and chief administrative officer. He is appointed by the Board of Governors, and is, *ex-officio,* Vice-Chancellor of the University.

The **Fellows** are limited to 43 in number, and are selected with reference to the representation of all the faculties and

departments of the University, of affiliated colleges, and of other bodies.

The Governors, Principal, and Fellows, together constitute the **Corporation,** the highest academical body. Its powers are fixed by statute, and include the framing of all regulations touching courses of study, matriculation and graduation, and the granting of degrees.

The Principal, the Deans of the several Faculties, the Professors and Associate Professors, and other members, not exceeding ten in number, of the teaching staff, constitute the **Academic Board** of the University, with the duty of considing such matters as pertain to the interests of the University as a whole, and of making recommendations concerning the same.

The Statutes and Regulations of the University have been framed on the most liberal principles, with the view of affording to all classes of persons the greatest possible facilities for the attainment of mental culture and professional training.

Faculties and Courses.

The educational work of the University is carried on in McGill College, the Royal Victoria College for Women, and other University buildings in Montreal, and in affiliated colleges.

The Faculties are four in number :

The Faculty of Arts.—The undergraduate courses of study extend over four Sessions of seven and a half months each. In the third and fourth years extensive options are provided, and certain exemptions also are allowed to professional students. The courses of study lead to the Degrees of B.A., M.A., B.Sc., M.Sc., D.Sc., and D.Litt. The Degree of B.A. from this University admits the holder to the study of the learned professions, without preliminary examination, in the Provinces of Canada, and in Great Britain and Ireland, and elsewhere.

The undergraduate course in Arts can be taken along with the undergraduate course in Medicine or Applied Science in six years, or with the undergraduate course in Law in five years. This is effected by avoiding the duplication of courses in the same subjects or in those which give the same educational training, and by a proper adaptation of the time tables. Alternatively, a certificate of Literate in Arts is given along

with the Degree in Medicine, Applied Science, or Law, to candidates who have completed two years in Arts before entering the professional Faculty.

The curriculum in Arts provides for the education of women, mainly in separate classes, with courses of study, exemptions, degrees, and honours identical with those for men.

The Faculty of Applied Science.—The undergraduate courses of study extend over four Sessions of seven and a half months each, and provide a thorough professional training in Civil Engineering, Mechanical Engineering, Metallurgy, Mining Engineering, Electrical Engineering, Practical Chemistry, Railroad Engineering, and Architecture. The courses of study lead to the Degrees of B.Sc., B.Arch., M.Sc., and D.Sc. The undergraduate course in Arts can be taken along with the undergraduate course in Applied Science in six years.

The Faculty of Law.—The undergraduate course extends over three Sessions of eight months each, and leads to the Degrees of B.C.L. and D.C.L. The undergraduate course in Arts can be taken along with the undergraduate course in Law in five years.

The Faculty of Medicine.—The undergraduate course of study extends over four Sessions of nine months each, and leads to the Degree of M.D., C.M., and, in the Department of Dentistry, to the Degrees of M.D.S. and D.D.S. The undergraduate course in Arts can be taken along with the undergraduate course in Medicine in six years.

Conservatorium of Music.—Thorough instruction in all branches of music is given in the Conservatorium of Music recently established in connection with the University (799 Sherbrooke Street). The courses followed are those prescribed for the different examinations of the Associated Board of the Royal Academy of Music and the Royal College of Music of London, England, in conjunction with which body the University has arranged to carry on throughout Canada the Examinations in Music hitherto conducted by the Associated Board alone. Under this arrangement, the University will be responsible for the proper and effective conduct of the Examinations, and successful candidates will be entitled to receive certificates bearing the imprimatur of the University as well as that of the Associated Board.

These examinations comprise School Examinations (Elementary, Lower and Higher divisions) and Local Centre Examinations (Intermediate and Advanced grades)—the Advanced grade calling for a high degree of proficiency. They are of graduated difficulty; are theoretical and practical in character, embracing Rudiments of Music, Harmony and Grammar of Music, Counterpoint, Pianoforte, Organ, Violin, Harp, Wind Instruments, Singing, etc.; and are suited to candidates of all degrees of proficiency. In addition to those above-named there is an examination for individual Teaching Certificates and title of Licentiate of the Associated Board.

The examinations in Practical subjects will be held during May and those in Theory in the early part of the same month.

Full details of the requirements for each examination, fees, etc., are published in a separate syllabus, which can be obtained (free), together with specimen Theory papers (price ten cents) and full information, on application to the Secretary of the Conservatorium of Music.

For information as to the higher courses leading to University Degrees in Music, which it is proposed to institute in connection with the Conservatorium, application should be made to the Registrar of the University.

Affiliated Colleges.

Students of Affiliated Colleges are matriculated in the University, and may pursue their course of study in the Affiliated College, or in part in the Affiliated College, and in part in McGill College, as the case may be, and may come up to the University Examinations on the same terms as the students of McGill College.

The Stanstead Wesleyan College, Stanstead, P.Q.—Is affiliated in so far as regards the work of the first two years in Arts. Detailed information may be obtained from the Rev. C. R. Flanders, B.A., D.D., Principal.

Vancouver College, Vancouver, B.C.—Is affiliated in so far as regards the work of the First Year in Arts. Detailed information may be obtained from J. C. Shaw, M.A., Principal.

Victoria College, Victoria, B.C.—Is affiliated in so far as regards the work of the First Year in Arts. Detailed information may be obtained from Edward B. Paul, M.A., Principal.

King's College, Windsor, N.S.—Is affiliated in so far as regards the work of the first two years in Arts. Full information may be obtained from the Principal.

Affiliated Theological Colleges.

Students of the following Affiliated Theological Colleges may attend the courses of study in Arts, either as undergraduates or partial students, with such facilities in regard to exemptions as may be agreed on:—

The Congregational College of Canada, Montreal.—Principal Rev. E. M. Hill, D.D., 58 McTavish St.

The Presbyterian College, Montreal, in connection with the Presbyterian Church in Canada. Principal, Rev. John Scrimger, M.A., D.D.

The Wesleyan College of Montreal. Principal, Rev. W. I. Shaw, D.D., LL.D.

The Diocesan College of Montreal.—Principal, Rev. E. I. Rexford, M.A., LL.D., 201 University St.

Calendars of the above Colleges and all necessary information may be obtained on application to their Principals.

McGill Normal School.

The McGill Normal School provides the training requisite for Teachers of Elementary and Model Schools and Academies. Teachers trained in this School are entitled to Provincial Diplomas, and are encouraged by the offer of Bursaries to enter the classes in the Faculty of Arts for Academy Diplomas and for the Degree of B.A. Principal, S. P. Robins, LL.D., 32 Belmont St., Montreal, from whom copies of the School announcement may be obtained.

Affiliated High Schools, Etc.

Schools in which candidates are prepared for matriculation are reckoned as affiliated schools in that sense.

The following schools prepared successful candidates for the University School Examinations, or for matriculation (June, 1903):—

Abingdon School, Montreal; All Hallows' School, Yale, B.C.; Ashbury College, Ottawa; Bedford Academy; Bishop Feild Coll., St. John's, Nfld.; Bishop's College School, Lennoxville; Boys' High School, Quebec; Brantford Collegiate Inst.; Chatham Collegiate Inst.; Coaticook Academy; Cookshire Acad.; Cornwall High School; Crichton School, Montreal; Danville Acad.; Diocesan College, Preparatory School; Dunham Ladies' Coll.; Girls' High School, Montreal; Girls' High School, Quebec; Granby Academy; Harrow School, England; High School, Montreal; Highfield School,

Hamilton; Huntingdon Acad.; Inverness Acad.; Knowlton Acad.; Lachine Acad.; Lachute Acad.; Lennoxville Academy; Morrin College, Quebec; Ottawa Coll. Inst.; Petrolea High School; Prince of Wales College, Charlottetown, P.E.I.; Ridley Coll., St. Catharines; Saltus Grammar School, Bermuda; Senior School, Montreal; School of St. John the Evangelist; Smith's Falls High School; Sherbrooke Acad.; Miss Symmers' and Miss Smith's School, Montreal; Stanstead College School; Sutton Acad.; St. Andrew's College, Toronto; St. Alban's School, Brockville; St. John (N.B.) High School; St. John's High School; Trafalgar Institute, Montreal; Trinity College School, Port Hope; Upper Canada College; Vancouver College, Vancouver, B.C.; Vankleek Hill Collegiate Inst.; Westmount Academy; Waterloo Acad.; Windsor (N.S.) Collegiate School.

Affiliation to other Universities.

The University is affiliated to the Universities of Oxford, Cambridge, and Dublin, under conditions which allow an undergraduate who has taken two years' work, and has passed the University Intermediate Examination in Arts, to pursue his studies and take his Degree at any of those universities on a reduced period of residence.

The Session.

The University Year or Session is divided into two terms, the first extending to the Christmas vacation, and the second from the expiry of the Christmas vacation to the date appointed for the meeting of Convocation for the conferring of degrees. The annual university lecture will be delivered on October 6th., 1904.

For 1904-1905 the Session of the **Faculty of Arts** will commence on September 21st, 1904, and will end on April 28th, 1905. Second Year Exhibition, Scholarship and Supplemental Examinations will begin on September 12th.

The Session of the **Faculty of Applied Science** will commence on September 21st, 1904, and will end on April 28th, 1905. Field work in Surveying will begin on August 22nd, 1904. The Summer School in Mining will commence at the end of the Session, and continue to about the end of the second week in June.

The Session of the **Faculty of Law** will commence on September 21st, 1904, and end on April 28th, 1905.

The Session of the **Faculty of Medicine** will commence on September 21st, 1904, and end on June 9th, 1905.

Examinations for entrance to the above-named Faculties will be held in June and September—commencing in September on the 12th. See time table, pp. 21 and 22.

Summer Classes. During the months of May and June, a series of SUMMER CLASSES will be conducted, intended mainly in the first instance, to meet the requirements of students in the first two years of their course. The subjects offered in the Faculty of Arts are English, Latin, Greek, Mathematics, Physics, Chemistry, Logic, French, German and Elementary Biology. A fee of eight dollars will be exigible for any one class and of four dollars for each additional class. Classes will also be conducted in the following subjects of the First Year in the Faculty of Applied Science, if a sufficient number of students apply: Descriptive Geometry, Freehand Drawing, Mathematics, Physics, Shopwork, and in Chemistry of the Second Year. The fee for each class will be learned on inquiry at the office of the Bursar.

Board and Residence.

No residential accommodation has as yet been provided in the College for men students. Women students may board and reside either in private houses or in the Royal Victoria College, which provides, in addition to separate lecture rooms, residential accommodation for the women students of the University *(See Post)*.

Good board and lodgings can be obtained in private houses in the vicinity of the University buildings at a cost of from $17 to $25 per month; or, separately, board at $12 to $15 per month, rooms at $4 to $10 per month.

A list of suitable boarding and lodging houses, the sanitary conditions of which are required to be properly certified, is prepared annually, and may be obtained upon application to the Registrar of the University, or the Janitor of the Medical Building.

The erection of suitable University residential halls for men is contemplated in the near future.

The McGill Y.M.C.A. will arrange to meet any stranger at the station, and aid him to secure lodgings, etc., if sufficient notice of time of arrival and station is sent to the Secretary, 844 Sherbrooke Street, Montreal.

Exhibitions, Scholarships, Prizes, Etc.

Bursaries, Exhibitions, and Scholarships, particulars of which are given in the announcements of the several Faculties (see *post*), are offered for competition to students every year. In addition to a number of valuable exhibitions and scholarships open to Second and Third Year students, seventeen Exhibitions, ranging in value from $100 to $300 each, will be offered for competition to students entering the First Year in Arts, in June, 1904. For details of the examination see pp. 50-56.

Bursaries are also awarded to intending teachers who have graduated from the McGill Normal School, with the Model School Diploma, and who have satisfied the requirements for matriculation. For particulars see under "McGill Normal School."

Gold Medals, Honours, and Prizes are awarded in connection with advanced courses of study.

Classification of Students.

Except under special circumstances, no student under the age of sixteen is admitted to the First Year courses, or under the age of seventeen to the Second Year courses in Arts, Applied Science, or Medicine, and no student under the age of seventeen is admitted to the course in Law.

Students are classified as Graduate Students, Undergraduates, Conditioned Students and Partial Students.

Undergraduates are matriculated students who are pursuing a full undergraduate course of study leading to a degree.

In order to obtain undergraduate standing, a candidate must have passed the Matriculation Examination of the University or some other examination accepted in lieu thereof (see page 12), and have registered as a matriculated undergraduate.

Conditioned Students are those who, not having completed their matriculation examination, are pursuing a full under-

graduate course of study leading to a degree, and are entitled, under the regulations of the Faculty, to obtain undergraduate standing upon completing their matriculation; credit being given for their work as Conditioned Students (see page 11, Reg. 7).

Partial Students are those who, not belonging to one of the above classes of students, are pursuing a course of study in the University. Such students may, subject to the approval of the Professor, attend any class without previous examination.

(For special regulations in this connection in the Faculty of Arts, see page 48.)

Women are admitted to the courses in Arts (on identical terms with men, but mainly in separate classes), and also to the Freehand Drawing, and Modelling Classes in Applied Science.

All students are required to attend lectures at the University buildings in Montreal, or at one of the affiliated colleges.

Partial Students who subsequently obtain undergraduate standing by passing the Matriculation Examination may, as Undergraduates, be exempted, at the discretion of the Faculty, from a particular course or courses of lectures which they may have attended as Partial Students, and in which they have passed the regular sessional examinations.

MATRICULATION.

I. Matriculation Examination Regulations.

1. Matriculation Examinations (for entrance into all Faculties) are held only in June and September—in June at McGill College and (on application) at local centres; in September at McGill College and affiliated colleges (Vancouver, B.C., Victoria, B.C,, and Stanstead, P.Q.) only.

All inquiries relating to the Examination should be addressed to the Registrar of the University.

2. Every candidate for examination is required to fill up an application form and return the same with the necessary fee one month before the examination. Blank forms may be obtained from the Registrar.

3. Applications for examinations at local centres must be made before May 1st. The University will be responsible for no other local expenses than the payment of the deputy-examiners.

4. The Matriculation Examination is divided into two parts, Preliminary and Final. The subjects of the Preliminary Division may be taken at any Matriculation Examination, and those of the Final Division at the same or any subsequent examination, but (except as provided in regulations 6 and 7) a candidate must pass in the whole of either division at one time in order to secure exemption from further examination therein.

5. When two or more books or subjects are prescribed for one examination it is necessary to pass in each.

6. Candidates who fail in one or more subjects at the June examination, or who have taken part only of the examination, and present themselves in the *following* September, will not be required to take the subjects in which they passed in June.

7. Candidates who at the September Examination fail in a small part only of the whole examination may, if their general standing is sufficiently high, be allowed to enter the First Year Undergraduate Course as Conditioned Students. Students will not as a rule be conditioned unless they present themselves for examination in September, and show a sufficient knowledge of the work to justify the examiners in recommending that they be allowed to enter. Such students can obtain full undergraduate standing by passing at a subsequent June or September Matriculation Examination in the subjects in which they failed, and will not be permitted to enter the Second Year of their Course of Study until such examinations have been passed.

8. Certificates of having passed the following examinations will, if submitted to the Registrar, be accepted *pro tanto* in lieu of the Matriculation Examination, *i.e.,* in so far as the subjects and standard are, to the satisfaction of the Board of Matriculation Examiners, the same as or equivalent to those required for the Matriculation Examination of the University; but candidates offering certificates of having passed such examinations

will be required to pass the Matriculation Examination in such of the required subjects, if any, as are not covered thereby:—

Province of Quebec.

The Preliminary subjects of the A. A. Examination and Academy Grade I.

The University School (A.A.) Examinations.

The Examination for the Model School Diploma of the McGill Normal School, under certain conditions.

Province of Ontario.

The Leaving Examinations, Parts I and II.

Junior and Senior Matriculation Examinations.

Province of New Brunswick.

The Examinations for Superior and Grammar School Licenses.

Province of Nova Scotia.

The Leaving Examinations, Grades XI. and XII.

Province of Prince Edward Island.

The Leaving Examination of Prince of Wales College.

Province of British Columbia.

The Junior, Intermediate and Senior Grade Examinations.

Great Britain.

The Local Examinations of the leading universities.

Applications for exemptions from the Matriculation Examination, based upon certificates of having passed examinations other than those above mentioned, will be considered as occasion may require by the Board of Matriculation Examiners. Every such application must be accompanied by certificates and full particulars, and should be addressed to the Registrar.

II. Matriculation Fees.

See page 30.

III. Subjects of Examination.

FACULTY OF ARTS.

PRELIMINARY DIVISION.

(*See Regulation 4, page —.*)

English (**Composition, Dictation, Grammar.**).
British History. (For 1904 and 1905 only).
Arithmetic.

FINAL DIVISION.

For candidates intending to take the B.A. Course:—

1. **History** and **Geography.** (In and after 1906).
2. **English Literature.**
3. **Latin** *or* **Greek.**
4. One of the following:
   Greek *or* **Latin** (the one not already chosen), **French, German.**
5. **Algebra, Part I.**
6. **Geometry, Part I.**
7. One of the following:
   Physiography, Botany, Chemistry, Physics, a **Language** not already chosen.

For candidates intending to take the B.Sc. Course in Arts:—

1. **History** and **Geography.** (In and after 1906).
2. **English Literature.**
3. **French.**
4. **German.**
5. **Algebra, Part I.**
6. **Geometry, Part I.**
   Physiography, Botany, Chemistry, Physics, Latin, Greek.

Candidates who intend ultimately to proceed to the study of Medicine are reminded that for Medical Registration it will be necessary to take Latin.

Nine Exhibitions, ranging in value from $100 to $200 each, will be awarded on the result of the Matriculation Examination in the subjects of the Final Division, in June next; five, each of the value of $150, on the result of an Examination on the subjects required for Matriculation, together with additional work;

and three, of the value of $300 each, for an examination special work.

For full particulars see page 50.

FACULTY OF APPLIED SCIENCE.

PRELIMINARY DIVISION.

(*See Regulation 4, page 11.*)

English (Composition, Dictation, Grammar).
British History. (For 1904 and 1905 only).
Arithmetic.

FINAL DIVISION.

1. **History** and **Geography.** (In and after 1906).
2. **English Literature.**
3. One of the following:
   French, German, Latin, Greek.
4. **Algebra, Psrts I. and II.**
5. **Geometry, Parts I. and II.**
6. **Trigonometry.**
7. One of the following:
   Physiography, Botany, Chemistry, Physics, a **Language** not already chosen.

In addition to those who qualify in whole or in part on certificates mentioned on p. 12, par. 8, students who have completed one or more years of the Arts Course in any recognized University, may enter this Faculty on passing an examination in the additional mathematics, if any, required for Matriculation in Applied Science.

French candidates for Matriculation in this Faculty will be allowed to take examinations in French equivalent to those required in English and an examination in English equivalent to that required in French.

Candidates competing for the Architectural Scholarship offered by the Province of Quebec Architects' Association, may substitute Architectural Design under head No. 7 of the above requirements. Further particulars will be given on application.

FACULTY OF MEDICINE.

PRELIMINARY DIVISION.

(*See Regulation 4, page 11.*)

English (Composition, Dictation Grammar).
British History. (For 1904 and 1905 only).
Arithmetic.

FINAL DIVISION.

1. **History and Geography.** (In and after 1906.)
2. **English Literature.**
3. **Latin.**
4. **Algebra, Part I.**
5. **Geometry, Part I.**
6. **Chemistry.**
7. **Physics.**
8. One of the following:
   Greek, French, German.

In addition to the certificates mentioned on p 12, par. 8, the following are accepted in lieu of the Matriculation Examination for entrance in Medicine, provided they cover Latin:—

The Degree of Bachelor of Arts obtained from any recognized university.

A certificate of having passed the Examination of a Provincial Medical Council.

In the case of candidates from the United States, a certificate of having passed a State or University Examination fully equivalent to the Matriculation Examination required for entrance in this University.

The examination requirements for those who intend to practise medicine in any of the Provinces of Canada, or in Great Britain and Ireland and the British Colonies, will be found under Faculty of Medicine.

FACULTY OF LAW.

PRELIMINARY DIVISION.

(*See Regulation 4, page 11.*)

English (Composition, Dictation, Grammar).
British History. (For 1904 and 1905 only).
Arithmetic.

FINAL DIVISION.

1. **History** and **Geography.** (In and after 1906).
2. **English Literature.**
3. **Latin.**
4. **French.**
5. **Algebra, Part 1.**
6. **Geometry, Part I.**
7. One of the following:
   Physiography, Botany, Chemisty, Physics, Greek, German.

Candidates must reach a high standard in Latin and French.

In addition to those who qualify in whole or in part on certificates mentioned on page 12, par. 8, Bachelors of Arts, Science, or Letters of any Canadian or British University (see R.S.Q., 3503*a*) are admitted without examination.

At and after the commencement of the session 1906-07, no candidate domiciled in the Province of Quebec shall be admitted as an undergraduate in the Faculty of Law who shall not, in addition to other matriculation requirements, possess an adequate knowledge of French. Every candidate for admission as an undergraduate, whether exempt from the matriculation examination or not, shall be specially examined in this subject by an examiner appointed by Corporation, on the recommendation of the Matriculation Board, before being allowed to enter, and shall not be considered to possess an adequate knowledge unless he can speak the language with fair fluency and can translate with ease a passage of English into French.

Candidates who intend to practise law or to be admitted to the notarial profession in the Province of Quebec are referred to the Statutory requirements (see Faculty of Law). If they are not graduates they should pass the examination for admission to study required by the Council of the Bar or by the Board of Notaries, as the case may be, before seeking to matriculate. In that case they will be matriculated without examination.

IV. Details of the Requrements in each Subject.

PRELIMINARY DIVISION.

English (Composition, Dictation, Grammar).

Candidates will write a short essay on a subject to be given at the time of the examination.

A paper on English Grammar, including Analysis. The candidate will be expected to show a good knowledge of Accidence, as treated in any grammar prepared for the higher forms of schools. A similar statement applies to grammatical Analysis. Candidates are required to state the class to which any subordinate sentence belongs, and to arrange and define the various members of all sentences set. Failure in Analysis or Parsing will cause the rejection of the paper. West's English Grammar for Beginners is recommended as a text-book.

British History.

Candidates will be required to show a somewhat intimate acquaintance with the History from 1485 to the present time. While any text-book written for the upper forms of schools may be used in preparation for the examination, Gardiner's Outline of English History (Longmans) is recommended.

In 1906 this subject will be transferred from the Preliminary to the Final Division, and Geography will be added to the requirements. A somewhat particular knowledge of the whole History will be expected of all candidates, such as can be obtained by a study of Wrong's "History of the British Nation." The Geography required will be that relating to the History prescribed.

Arithmetic.

All the ordinary rules, including Square Root, and a knowledge of the Metric System.

FINAL DIVISION.

English Literature and Composition.

1904. Selections from Tennyson, Part I, (ed. Rowe & Webb, Macmillan); Shakspere's Merchant of Venice.

1905. *Literature.*—Shakspere's Merchant of Venice; Selections from Tennyson, Part I (Rowe & Webb, Macmillan), or Nineteenth Century Prose (by J. W. C.), pages 1-126, with notes (Copp, Clark Co.).

Composition.—As in Sykes' Elementary Composition, with an essay on some subject connected with the works prescribed in Literature. Frequent practice in composition will be essential,

in order that candidates may be prepared to meet the requirements of the examination.

The work specified for the Junior Leaving English of the Province of Ontario will be accepted.

Greek.

Grammar.

Texts.—(Translation and grammatical study) :—

1904 and 1905.—Xenophon, Anabasis I (as in White's Beginners' Greek Book, pp. 304-428), or Xenophon, Anabasis II.

1906.—As in 1905.

Translation at Sight, and Prose Composition.—Sentences and easy narrative based upon the prescribed texts.

The requirements for the Junior Leaving Greek of the Province of Ontario will be accepted in place of the texts specified above. At the September Examination other texts equivalent to those specified may be accepted, if application be made to the Registrar at least one month before the date of the examination.

Latin.

Grammar.

Texts.—(Translation and grammatical study) :—

1904—Cornelius Nepos, Lives of Miltiades and Epaminondas (G. H. Nall, in Macmillan's Elementary Classics); Caesar, De Bello Gallico, I and II; Ovid, Stories from the Metamorphoses (as in Gleason's "A Term of Ovid," pages 1 to 53, American Book Company).

1905 and 1906—Cornelius Nepos, Lives of Themistocles and Aristides (Wilkinson, in Macmillan's Elementary Classics); Cæsar, De Bello Gallico Bks. IV and V; Ovid, Stories from the Metamorphoses (as in Gleason's "A Term of Ovid," pages 54 to the end, American Book Company).

Translation at Sight and Prose Composition.—Sentences and easy narrative based upon the prescribed texts.

The requirements for the Junior Leaving Latin of the Province of Ontario will be accepted in place of the texts specified above. At the September Examination other texts in Latin

equivalent to those specified may be accepted, if application be made to the Registrar at least a month before the day of the examination.

French.

Grammar.—Accidence and Syntax, including translation into French of simple English sentences to test the candidate's familiarity with elementary grammar. No candidate will be allowed to pass who fails in this part of the examination. Bertenshaw's French Grammar is recommended as containing the amount required under this head.

Translation at Sight from French into English. Translation into French of easy English passages.

German.

Grammar.—A thorough knowledge of German accidence.

Translation.—Candidates must be able to translate into German with tolerable correctness exercises approximately equal in difficulty to those contained in the First Part of Van der Smissen's High School German Grammar, or in the First and Second Parts of the Joynes-Meissner German Grammar (Heath & Co.).

Texts.—(Translation and grammatical study):—

1904 and 1905—Auf der Sonnenseite (Heath & Co.)
Storm, Immensee (Heath & Co.).

1906.—As in 1905.

The requirements for the Junior Leaving German of the Province of Ontario will be accepted in place of the texts specified above. At the September examination other texts equivalent to those specified may be accepted, if application be made to the Registrar at least one month before the date of the examination.

Algebra, Part I.

Elementary Rules, Involution, Evolution, Fractions, Indices, Surds, Simple and Quadratic Equations of one or more unknown quantities, as in Hall and Knight's Elementary Algebra ' end of Surds (omitting portions marked with an asterisk), or in similar text-books.

Algebra, Part II.

The three Progressions, Ratio, Proportion, Variation, Permutations and Combinations, Binomial Theorem, Logarithms, Interest and Annuities, as in remainder of Hall and Knight's Elementary Algebra (omitting chaps. 36, 40, 41, 42), or in similar text-books.

Geometry, Part I.

Euclid's Elements, Books I, II, III, with easy deductions; or an equivalent.

Geometry, Part II.

Euclid's Elements, Books IV and VI, with definitions of Book V, and easy deductions; or an equivalent.

Trigonometry.

Measurement of angles, Trigonometrical ratios or functions of one angle, of two angles and of a multiple angle, as in Hamblin Smith's Trigonometry, pp. 1-105, or as in Lock's Elementary Trigonometry, Chaps. I-XII, or in similar text-books. In 1906, as in Lock's Elementary Trigonometry, Chaps. I to XII, Hall and Knight's Trigonometry, Chaps. I to IV and VII to XII, all inclusive, or as in similar text-books.

Physiography.

The elements of the Science, as in Davis's Elementary Physical Geography, Tarr's First Book of Physical Geography, or other text-books covering the same ground.

Botany.

As in Groom's Elementary Botany.

Candidates will be given extra credit for Plant collections of a maximum of 25 species each. They will use Penhallow's Guide to the Collection of Plants and Blanks for Plant Descriptions.

The collections will be returned, if desired, at the expense of the school or individuals to whom they belong.

Any plant of the same family may be substituted for any one of those specified in Part II of Groom's Elementary Botany, according to the requirements of the locality.

Chemistry.

Elementary Inorganic Chemistry, comprising the preparation and properties of the chief non-metallic elements and their more important compounds, the laws of chemical action, combining weight, etc. The ground is simply and effectively covered by Remsen's "Elements of Chemistry," pp. 1 to 165 (Macmillan's Edition.)

Physics.

Properties of Matter; Elementary Mechanics of Solids and Fluids, including the Laws of Motion, Simple Machines, Work, Energy; Fluid Pressure and Specific Gravity; Thermometry, the effects and modes of transmission of Heat.

Text-book recommended—Gage's Introduction to Physical Science, 1902 edition (Ginn & Co.), chaps. I to V.

Dates of the Examinations.

The examinations in 1904 will commence on June 6th and on September 12th. Special arrangements may be made for the examination of candidates who are prevented by severe illness or domestic affliction from presenting themselves on the dates fixed.

Following will be the Time Table for the September examination of 1904:—

MONDAY, September 12th.

Morning	9–10.30.—English Grammar.
	10.30–11.—English Dictation.
	11–12.—English Composition.
Afternoon	2.30–4.—English Literature.
	4–5.30.—British History.

TUESDAY, September 13th.

Morning	9–11.—Latin Grammar and Composition.
	11–12.30.—Arithmetic.
Afternoon	2.30–4.30.—Latin Books and Sight Translation.

WEDNESDAY, September 14th.

Morning	9–11.—French.
	11–12.30.—Trigonometry.
Afternoon	2.30–4.30.—German.
	4.30–6.—Chemistry and Botany.

THURSDAY, September 15th.

Morning	9–11.—Geometry, Part I.
	11–12.30.—Physics and Physiography.
Afternoon	2.30–5.—Algebra, Part II., and Geometry Part II.

FRIDAY, September 16th.

Morning	9–11.—Algebra, Part I.
	11–1.—Greek Grammar and Composition.
Afternoon	3–5.—Greek Books and Sight Translation.

Admission to Second Year.

Admission to the Second Year is open, as a rule, only to undergraduates who have passed the First Year Sessional Examination in regular course, but in exceptional cases, to be dealt with by the Faculty in which they desire to register, candidates may be admitted directly to the Second Year without having passed through the curriculum of the First Year.

Students of other Universities Applying for Equivalent Standing.

Any student of another university wishing to be admitted to this University with equivalent standing, is requested to send with his application:—

1st.—A Calendar of the University in which he has studied, giving a full statement of the courses of study.

2nd.—A complete statement of the course he has followed.

3rd.—A certificate of the standing gained, and of conduct.

These will be submitted to the Faculty in which he desires to register.

The Faculty, if otherwise satisfied, will decide what examination, if any, or what conditions may be necessary before admitting the candidate.

DEGREES.

All theses for higher degrees must be sent to the Registrar of the University. No thesis will be received or examination granted until the fee for the degree has been paid.

In order to obtain the degrees of B.A., B.Sc., B.Arch., B.C.L., M.D., C.M. and M.D.S., students of this University are required to attend the lectures and to pass the examinations of the undergraduate courses.

STATUTORY ENACTMENTS CONCERNING DEGREES.

For the Degree of B.A.

Students who shall have satisfactorily completed the regular course of study in Arts, shall have passed the prescribed examinations during the course, and also the special examinations for graduation, and shall have performed such exercises as may be prescribed to that end, shall be entitled to the Degree of Bachelor of Arts.

For the Degree of B.Sc.

Students who shall have satisfactorily completed the prescribed course of study in the Faculty of Arts for the Degree of Bachelor of Science, or the course of study in the Faculty of Applied Science, shall have passed the prescribed examinabe prescribed to that end, shall be entitled to the Degree of tions during the course, and also the special examinations for graduation, and shall have performed such exercises as may Bachelor of Science.

For the Degree of B. Arch.

Students who shall have satisfactorily completed the regular course of study in the Faculties of Arts and Applied Science for the Degree of Bachelor of Architecture, shall have passed the prescribed examinations during the Course, and also the special examinations for graduation, and shall have performed such exercises as may be prescribed to that end, shall be entitled to the Degree of Bachelor of Architecture.

For the Degree of B.C.L.

Students who shall have satisfactorily completed the regular course of study in Law, shall have passed the prescribed examinations during the course and also the special examina-

tions for graduation, shall be entitled to the Degree of Bachelor of Civil Law. A Bachelor or Master of Arts, or an Articled Student with a practising Member of the Bar of the Province of Quebec, who shall have matriculated in the third year of his clerkship under such articles, shall be entitled to such Degree after two years' attendance on the said course of study, if he shall satisfactorily pass all requisite examinations, and perform all required exercises.

For the Degree of M.A.

Bachelors of Arts of this University, of at least one year's standing, who (*a*) shall have taken for one year a graduate course of study in Arts in the University, previously submitted to and approved by the Faculty, and (*b*) shall have passed an examination at the end of the course, and (*c*) shall have presented, if required, a satisfactory thesis, shall be entitled to the Degree of Master of Arts. Bachelors of Arts of at least two years' standing who shall have presented a satisfactory thesis and passed a special examination, shall be entitled to the Degree of Master of Arts.

Any Bachelor of Arts who graduated prior to May 1st, 1899, or any undergraduate in Arts registered at that date, and proceeding thereafter to the Degree of Bachelor of Arts, shall at his option be entitled to the Degree of Master of Arts on the following conditions:

1. A candidate must be a Bachelor of Arts of at least three years' standing.

2. He is required to prepare and submit to the Faculty a thesis on some literary or scientific subject, under the following rules:—

(*a*) The subject of the thesis must be submitted to the Faculty before the thesis is presented.

(*b*) A paper read previously to any association, or published in any way, cannot be accepted as a thesis.

(*c*) The thesis submitted becomes the property of the University, and cannot be published without the consent of the Faculty of Arts.

(*d*) The thesis must be submitted before some date to be fixed annually by the Faculty, which date must not be less than two months before the candidate proceeds to the Degree.

The last day in the session of 1904-1905 *for sending in Theses for M.A. will be Jan.* 31*st*, 1905.

3. All candidates, except those who have taken First or Second Rank B.A. Honours, or have passed First Class in the ordinary examinations for the Degree of B.A., are required to pass an examination also, either in Literature or in Science, as each candidate may select.

The subjects of the examination in *Literature* are divided into three divisions, as follows:—

Group A.—Latin, Greek, Hebrew.

Group B.—French, German, English.

Group C.—History, Economics and Political Science, Law.

The subjects of the Examination in *Science* are divided into three divisions:—

Group A.—Pure Mathematics (advanced or ordinary), Mechanics (including Hydrostatics), Astronomy, Optics.

Group B.—Geology and Mineralogy, Botany, Zoology, Chemistry.

Group C.—Mental Philosophy, Moral Philosophy, Logic, History of Philosophy.

Every candidate is required to select two out of the three groups in the section in which he is a candidate; and in one of the groups so chosen to select for examination two subjects, and in the other group one subject.

One of the subjects selected as above will be considered the principal subject (being so denoted by the candidate at the time of application), and the other two as subordinate subjects.

The whole examination may be taken in one year, or distributed over two or three years, provided the examination in any one subject be not divided.

For further details of the examination, application must be made to the Faculty before the above date.

The fee for the degree is $20; *in absentia*, $10. (In case of failure, the candidate may present himself in a subsequent year without further payment of fees.) The examination will be held in April in McGill College only. A candidate after fulfilling all the conditions ought to notify the Faculty of his desire to proceed to the degree at the next convocation.

Candidates who obtained the degree of B.A. before 1884 *may proceed to the degree of M.A. under the regulations in force previous to* 1884.

Lectures are open to Bachelors of Arts who are candidates for M.A., the sessional examinations corresponding to these lectures being reckoned as parts of the M.A. examination. The subjects are Greek, Latin, English, French, German, History, Mental and Moral Philosophy, Chemistry, Experimental Physics, Botany, Zoology, Geology and Mineralogy. Certificates of standing will be given.

For the Degree of M.Sc.

Bachelors of Arts or Bachelors of Science of at least one year's standing who shall have taken for one year a Graduate course of study in the Faculty of Arts or the Faculty of Applied Science of the University, previously submitted to and approved by the Faculty, shall have passed an examination at the end of the year, and shall, if required, have presented a satisfactory thesis; or Bachelors of Arts or Bachelors of Science of at least two years' standing who shall have presented a satisfactory thesis, and shall have passed a special examination for the degree, shall be entitled to the Degree of Master of Science.

The fee for the degree is $20; *in absentia*, $40.

For the Degree of M.D.

Students who shall have satisfactorily completed the regular course of study in Medicine, shall have passed the prescribed examinations during the course, and also the special examinations for graduation, shall be entitled to the Degree of Doctor of Medicine and Master of Surgery.

For the Degree of M.D.S

Students who shall have satisfactorily completed the regular course of study in the Dental Department of the Faculty of Medicine, shall have passed the prescribed examinations during the course, and also the special examinations for graduation shall be entitled to the Degree of Master of Dental Surgery.

For the Degree of D.D.S.

Masters of Dental Surgery who have either presented at any time later than one year after graduation a satisfactory thesis,

embodying original research, upon some branch of dental science; or have, at the completion of three years, passed satisfactorily an examination in advanced dentistry, the scope of which shall be determined by the Faculty of Medicine, shall be entitled to the Degree of Doctor in Dental Science.

For the Degree of D.Litt.

Candidates for the Degree of Doctor of Literature must be Masters of Arts, of at least five years' standing, who shall have distinguished themselves by special research and learning in the domain of Literature or Philosophy. They are required to present a satisfactory thesis or published work.

The fee for the degree is $80.

For the Degree of D.Sc.

Candidates for the Degree of Doctor of Science must be Masters of Arts or Masters of Science, or Doctors of Medicine, of at least five years' standing, who shall have distinguished themselves by special research and learning in the domain of Science. They are required to present a satisfactory thesis or published work.

The fee for the degree is $80.

For the Degree of D.C.L.

Candidates for the Degree of Doctor of Civil Law must be Bachelors of Civil Law of at least twelve years' standing. They are required to pass a special examination for the degree and to present a satisfactory thesis or published work on some subject selected or approved by the Faculty of Law. For details of the examination, etc., see pp.

The fee for the degree is $80.

For the Degree of LL.D.

Except as hereinafter mentioned, the Degree of Doctor of Laws is given only as an honorary degree.

Any person who matriculated and attended lectures in the Faculty of Arts before the 31st January, 1899, may proceed to the Degree of Doctor of Laws in course upon the following conditions:

Candidates for the Degree of LL.D., in course, must be Masters of Arts of at least twelve years' standing, and are

required to prepare and submit to the Faculty of Arts, not less than three months before proceeding to the degree, twenty-five printed copies of a thesis on some Literary or Scientific subject which has been *previously approved by the Faculty*. The thesis must exhibit such a degree of literary or scientific merit, and give evidence of such originality of thought or extent of research as shall, in the opinion of the Faculty, justify recommendation for the degree.

Candidates are also required to submit, with their thesis, a list of books treating of some one branch of Literature or of Science satisfactory to the Faculty, in which they are prepared to submit to examination, and in which they shall be examined, unless otherwise ordered by the Faculty.

The fee for the degree in course is $80.

ADMISSION "AD EUNDEM GRADUM."

The following are the regulations applicable to admission "ad eundem gradum":—

Extract from the Statutes, Chap. VIII.

"Graduates of other universities, desirous of admission "to the like degree in this University, may be so admitted "by the Corporation; due enquiry being first made as to "their moral character and sound learning, and opportunity "given to the several Faculties to make such representation "in the premises as they may see fit. Provided always, that, "unless by unanimous consent, such admission shall not "be put to vote until after three months' notice, and shall "not be ordered, if as many as five members of the Corporation shall vote against it."

Extract from the Regulations of the Corporation.

"In all cases in which anyone is proposed for any 'Ad "Eundem' degree, it shall be necessary for the member or "members of the Corporation making such proposal, to state "in writing therewith the grounds upon which the granting "of such degree is advocated, and when the case shall be re-"ferred to the Faculties, under Chap. VIII. of the Statutes, "copies of such proposal and grounds shall be transmitted to "the Faculties by the Secretary for their consideration."

Note.—In considering applications under the above regulations, the Faculties will require as "grounds" the pursuit of a course of study or research in this University; association with the academic work of the University; or similar qualifications.

Admission "ad eundem gradum" is not granted merely as a titular distinction.

REGISTRATION AND PAYMENT OF FEES.

Registration.

1. At any time before the first day of lectures in each session, candidates entering on a course of study in the Faculties of Arts, Law, and Applied Science, whether as Undergraduates, Conditioned Students or Partial Students, are required to attend at the office of the University Registrar, for the purpose of filling out in duplicate the usual form of registration, and of signing the following declaration in the Matricula or Register:—

"I hereby declare that I will faithfully observe the Statutes, Rules and Ordinances of this University of McGill College to the best of my ability."

2. On the first day of lectures students of the Second, Third and Fourth Years in the Faculties of Arts, Law, and Applied Science shall register in such place or places as may be found most convenient, due notice of which shall be given.

3. After registering, the student will be given a registration ticket, on presentation of which to the different professors and lecturers whose classes he proposes to attend, his name will be entered in the Class Register. It will not be entered on any other condition.

4. Students who find it impossible to present themselves at the times specified in Regulations 1 and 2 must register as soon as possible thereafter, and will not be allowed to attend any lectures, until they have obtained their registration tickets.

Payment of Fees.

1. Fees must be paid in the office of the Bursar on or before October 1st. Students entering after October 1st must pay their fees at the time of registration. The registration ticket

must be shown to the Bursar, in every case, before the fee is paid.

2. Immediately after the above date the Registrar shall send to each professor and lecturer a list containing the names of the registered students who have not paid their fees, on receipt of which the professor or lecturer shall strike the names of such students from the register of attendance.

3. Students whose names have been dropped from the class records on account of non-payment of fees can have them replaced, on presentation of a special ticket certifying that the fees have been paid. This ticket will only be issued on payment of an additional fee of two dollars.

FEES.

Matriculation fees must be sent to the University Registrar at the time of application for the examination. All other fees as well as all fines in the Faculties of Arts, Law, and Applied Science must be paid to the Bursar of the University; those in the Faculty of Medicine (with the exception of the Graduation fee) to the Registrar of that Faculty.

Matriculation Fees.

For the full Examination.....	$5 00
(In case of a Local Examination, where one candidate only is examined, the fee will be $10.)	
In case of candidates who do not complete the examination at one time, for the first examination..	5 00
For any subsequent examination.....	2 00
For examination of certificates, other than A.A. Certificates, in respect of which candidates are exempted from the whole of the Matriculation Examination..	1 00
For entrance into the Second Year.....	10.00

Candidates who have passed the University School (A.A.) Examination in the required matriculation subjects, and desire to enter the University, are required to pay the same fee as that for the Matriculation Examination, viz., $5.00, less any sum already paid in connection with the A.A. Examination.

Certificates will, on application, be issued to successful candidates without additional fee. Duplicate certificates will not be granted unless satisfactory proof be given of the loss or destruction of the original. The fee for a duplicate certificate is $1.00.

Fees in the Faculty of Arts.

For Regulations re payment, see p. 29.

1. Undergraduates and Conditioned Students.—$61 per session.* This will include the fee for Laboratory work, Library, Gymnasium and Athletics, and Graduation. In the Third and Fourth years, it will cover the normal amount of practical instruction given in each subject having a Laboratory Course.

2. Partial Students.—(First and Second Years.)—$16 per session for one course or one half-course of lectures, including the use of the Library; $12 per session for each additional course; $8 per session for each additional half-course. In addition there will be a fee of $3 for Athletics.

3. Partial Students.—(Third and Fourth Years.)—$22 per session for one course or one half-course of lectures, including the use of the Library; $20 per session for each additional course; $11 per session for each additional half-course. In addition there will be a fee of $3 for Athletics.

The lectures and laboratory work, if any, in one subject in any of the four College years constitute a "Course," if occupying three hours per week, a "Half-Course" if occupying less than three hours per week.

Partial Students taking the full curriculum in any one year pay the same fees as Undergraduates in that year.

4. Graduates in Arts of this University and graduates of other universities attending full courses in affiliated Theological Colleges are allowed, on payment of one-half of the usual fees, to attend all lectures, except those for which a special fee is exigible. For Bachelors of Arts proceeding to M.A. by taking for one year a graduate course of study, the fee is $40. This will cover Laboratory work.

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* At the request of the students themselves, and by the authority of corporation, an additional dollar will be exacted from all undergraduates and conditioned students (men) in the Faculty of Arts, for the support of the Literary and the Undergraduates' Society of that Faculty.

5. Special Fees.—

SUPPLEMENTAL EXAMINATION, at the regular date fixed by the Faculty..... 2 00

SUPPLEMENTAL EXAMINATION, when granted at any other time than the regular date fixed by the Faculty..... 5 00

All fees for Supplemental Examinations must be paid to the Bursar, and the receipts shown to the Dean before the examination.

6. Caution Money.—Every student is required to deposit with the Bursar the sum of $5, as caution money, to cover damage done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the session.

7. Summer Classes.—A fee of eight dollars will be exigible for any one class, and of four dollars for each additional class.

All fines are applied to the purchase of books for the Library.

Fees in the Faculty of Applied Science.

For Regulations re payment, see p. 29.

Annual fee for the undergraduate course in Architure, No. 1..... $100.00

Annual fee for all the other undergraduates courses... 175.00

(Undergraduates and conditioned students who were in attendance at the University during the Session of 1902-1903, or previously, will be allowed to complete the four years of their regular course on payment of $156.00 per annum).

Students taking the Double Course in the Faculties of Arts and Applied Science shall receive a rebate on the Faculty of Applied Science fees of an amount equal to the fees paid for equivalent subjects in the Faculty of Arts.

The fees for Partial Students are :—$10.00 for Library, Athletics and Caution money ; and a fee at the rate of $6.00 per annum for each hour of instruction per week, but the maximum fee shall in no case exceed $175.00.....

Deposit for caution money for undergraduates and conditioned students	5.00
Fee for Graduate Course	150.00

(Graduates of this Faculty will be required to pay only one-half of this amount.)

Supplemental Examinations.—The fee is $2.00 for each examination period (morning or afternoon). It must be paid to the Bursar of the University not later than the day before the examinations, and receipt for the same shown to the Professor in charge before the examination papers are distributed.

The fee for a special Supplemental Examination is $5.00.

Fees in the Faculty of Medicine.

All fees are payable in advance to the Registrar, and, except by permission of the Faculty, will not be received later than October 20th.

It is strongly recommended to parents or guardians of students that the fees be transmitted direct by cheque or P.O. Order to the Registrar, who will furnish official receipts.

The total Class Fees for the whole medical course of four full sessions will be *five hundred dollars*, payable in four annual instalments of $125 each.

Partial students will be admitted to one or more courses on payment of special fees. An annual University fee of three dollars is charged students of all the faculties for the maintenance of college grounds and athletics.

Students repeating the course of study of any Academic session are not required to pay full fees. A fee of forty-eight dollars will be charged, which will include Hospitals, dissecting material, chemical reagents, caution money, athletics, etc. The same fee is charged students entering from other colleges who have already paid fees elsewhere for the courses taken.

Every student is required to deposit at the beginning of each session the sum of $10.00 as caution money, to cover breakage in the different laboratories, etc. This amount, less deductions (if any), will be returned at the close of the Session.

An *ad eundem gradum* fee of $10 will be charged students entering from another university in the second, third or fourth year of the course.

Special Fees.—Annual tickets entitling students to admission to both the Montreal General and the Royal Victoria Hospitals must be taken out at the commencement of the second, third and fourth sessions.

For the convenience of the undergraduates, the Hospital fees are payable in the Registrar's office; ten dollars to be paid at the beginning of each of the last three sessions, viz., the second, third and fourth years. This will entitle each undergraduate to perpetual tickets for both the Montreal General and Royal Victoria Hospitals.

The fee for the Maternity Hospital for twelve months is $12, payable at the Hospital at the end of the third Session.

The fee for the Degree of Doctor of Medicine and Master of Surgery shall be thirty dollars, to be paid by the successful candidate to the University Bursar immediately after examination.

Summary of Fees.

First Year.

Class fees	$125.00
Caution money (deposit)	10.00
Athletics	3.00

Second Year.

Class fees	$125.00
Caution money (deposit)	10.00
Hospitals	10.00
Athletics	3.00

Third Year.

Class fees	$125.00
Caution money (deposit)	10.00
Hospitals	10.00
Maternity Hospital	12.00
Athletics	3.00

Fourth Year.

Class fees	$125.00
Caution money (deposit)	10.00
Hospitals	10.00
Athletics	3.00
Fee for Degree of M.D., C.M.	30.00

The following fees are exigible in the different graduate courses offered:—

Regular Graduate Course (including Hospital fees).. $40.00
(Special fees will be arranged for single courses.)
Course in Public Health, and Diploma..... $20.00

Fees in the Faculty of Law.

For Regulations re payment, see p. 29.

Registration Fee .....$ 5 00
Sessional Fee (including Athletics) for Undergraduates matriculating in and after September, 1903..... 60 00
Sessional Fee for Undergraduates previously enrolled.. 53 00
Athletics Fee, payable by Partial Students..... 3 00
Graduation Fee 12 50
Sessional Fee by Partial Students:—for the course of Roman Law, $20 ; for each of the courses on Successions, Criminal Law, Commercial Law, Obligations and Civil Procedure, $15 ; and for each one of the shorter courses, $10.00.

Caution Money.—Every student is required to deposit with the Bursar the sum of $5, as caution money, to cover damage done to furniture, loss of books, etc. This amount, less deductions, (if any), will be returned at the close of the session.

Fees for Higher Degrees.

For the Degree of M.A..... $20.00
" " " (*In absentia*) 40.00
(In case of failure on examination or the rejection of the thesis the candidate may present himself in a subsequent year without further payment of fee.)

For the Degree of M.Sc.....$20.00
" " " (*In absentia*) 40.00
" " D.Sc. 80.00
" " D.Litt. 80.00
" " D.C.L. 80.00
" " LL.D. (in course)..... 80.00

No fee shall be charged for the Degree of LL.D., granted "honoris causa."

The fee for any Higher Degree must be sent with the thesis to the Registrar of the University. This is a condition essential to the reception of the application. The Registrar will then forward the thesis to the Dean of the Faculty. If no thesis is required, the fees must be paid before the examination.

Miscellaneous Fees.

Elocution (optional)	$5.00
Library (optional for students in Law and Medicine)	4.00
Gymnasium (optional for undergraduates in Law and Medicine, and also for Partial Students in all Faculties)	2.50
Certificate of Standing, as to year of Course	1.00
Certificate of Standing, accompanied by a statement of classification in the several subjects of examination	2.00

All applications for certificates must be addressed to the Registrar of the University, accompanied by the required fee.

No certificates are given for attendance on lectures unless the corresponding examinations have been passed.

SPECIAL REGULATIONS.

Academic Dress.

Professors, lecturers and students are required to wear academic dress at lectures, except in those cases in which a dispensation shall have been granted by the Faculty.

Undergraduates shall wear a plain black stuff gown, not falling below the knee, with round sleeve cut above elbow.

Bachelor of Arts.—Black stuff gown, falling below knee, with full sleeve cut to elbow and terminating in a point (similar to that of the Cambridge B.A.); hood, black silk, lined with pale blue silk and edged with white fur.

Bachelor of Science.—The same gown as Bachelors of Arts; hood, black silk, lined with yellow silk and edged with white fur.

Bachelor of Civil Law.—The same gown as Bachelors of Arts; hood, black silk, lined with French grey silk and edged with white fur.

Master of Arts.—Black gown of stuff or silk falling below knee, with long sleeve with semi-circular cut at the bottom; (similar to that of the Cambridge M.A.); hood, black silk, lined with pale blue silk.

Master of Science.—The same gown as Masters of Arts; hood, black silk, lined with yellow silk.

Doctor of Medicine.—The same gown as Masters of Arts; hood, scarlet cloth, lined with dark blue silk.

Doctor of Laws.—The same gown as Masters of Arts; hood, scarlet cloth, lined with white silk.

Doctor of Literature.—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale blue silk.

Doctor of Science.—The same gown as Masters of Arts; hood, scarlet cloth, lined with yellow silk.

Doctor of Civil Law.—The same gown as Masters of Arts; hood, scarlet cloth, lined with French grey silk.

Doctors of Laws, Doctors of Civil Law, Doctors of Literature, and Doctors of Science shall be entitled to wear for full dress a robe of scarlet cloth (similar in pattern to that of the Cambridge LL.D.) faced with silk of the same colour as the lining of their respective hoods.

All hoods shall be in pattern similar to that of the Masters of Arts of Cambridge University.

Undergraduates and graduates shall wear the ordinary black trencher with black tassel, but Doctors of Laws, Doctors of Civil Law, Doctors of Literature, and Doctors of Science shall wear for full dress a black velvet hat with gold cord, similar to that worn by Doctors of Laws of Cambridge University.

Samples of the colours of the linings of all hoods shall be kept for inspection in the office of the Registrar.

Attendance and Conduct.

1. Punctual attendance on all his classes is required of each student.

2. A record shall be kept by each Professor or Lecturer, in which the presence or absence of students shall be carefully noted. The record shall be submitted to the Faculty at all their ordinary meetings during the Session.

3. Credit for attendance on any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class-room or laboratory. In the case last mentioned, the student may, at the discretion of the Professor, be required to leave the room. Persistence in any of the above offences against discipline shall, after admonition by the Professor, be reported to the Dean of Faculty. The Dean may, at his discretion, reprimand the student, or refer the matter to the Faculty at its next meeting, and may in the interval suspend from classes.

4. Absence from lectures can only be excused by necessity or duty, of which proof must be given, when called for, to the Faculty. The number of times of absence, from necessity or duty, that shall disqualify from the keeping of a session shall in each case be determined by the Faculty.

5. Any student found guilty of dishonest practices at an examination shall be liable to expulsion from the University, or to be suspended for a term of years.

6. While in college, or going to or from it, students are expected to conduct themselves in the same orderly manner as in the class-rooms. Smoking is prohibited in the College buildings, except in such rooms, if any, as may be set apart for that purpose. Any Professor observing improper conduct in the College buildings or grounds may admonish the student, and, if necessary, report him to the Dean. Without, as well as within the walls of the College, every student is required to maintain a good moral character.

7. When students are brought before the Faculty under the above rules, the Faculty may reprimand, report to parents or guardians, impose fines, disqualify from competing for prizes or honors, suspend from classes, or report to the Corporation for expulsion.

8. Any student damaging the furniture or buildings will be required to bear the expense of repairing or making good

the same, and will, in addition, be subject to such other penalty as the Faculty may see fit to inflict. If individual responsibility for damage cannot be traced, a *pro rata* assessment may be made on all the students more directly concerned.

9. All cases of discipline involving the interests of more than one Faculty, or of the University in general, shall be immediately reported to the Principal, or, in his absence, to the Vice-Principal.

10. Petitions from the students to any University body on any subject can, in general, be taken into consideration only at the regular meetings appointed in the Calendar.

Conduct of Examinations.

1. The supervision of the examinations of the University is entrusted largely to officers specially appointed from year to year in sufficient numbers for the purpose. An attendant is present in the Examination Hall throughout each examination.

2. Writing paper for the examinations is provided in the form of books, with covers in special colours. Each book contains a statement of the duties of candidates, and to each is attached a small envelope containing a card or slip for the name of the candidate.

3. Each colour has a number, and only one colour is employed at a given examination. A certain scheme of colours is arranged beforehand for the whole period of the examination.

4. The seating of the students is arranged in advance, and is posted at the entrance of the Hall fifteen minutes before the commencement of the examination.

5. The Faculty, or a Committee of the Faculty concerned, will arrange for at least one examiner, and such other paid examiners as are deemed necessary, to be present in the Hall for each examination ; and will also arrange the scheme of seating and books to be used.

6. All examiners are expected to attend strictly to the supervision of the examinations while they are in the Hall.

7. They shall instruct each candidate to write the number of his table on the outside of his book ; to write his name plainly upon the card provided in the envelope on the book ; to replace it and seal the envelope.

After this has been done, the examination papers are distributed. Any candidate entering late will be required to sign his card and close the envelope before receiving the examination paper.

The examiners shall also call the attention of the candidates to the rules printed upon the envelope.

8. During the course of the examinations the examiner shall verify the position of each candidate in the examination hall according to a plan.

9. For the convenience of candidates, the examiners may announce the time when half of the period allowed for the examination has expired ; and also at thirty minutes and five minutes before the close.

10. Before beginning to write on the examination, candidates should write their names plainly on the slip provided in the envelope, and enclose it, fastening the envelope, and write the number of their desk or table plainly on the cover of the examination book.

11. No candidate shall be permitted to enter the examination room after the expiry of one-half hour, or leave it before the expiry of one-half hour, from the commencement of the examination. Any candidate leaving the examination room after the issue of the examination papers in any subject, shall not be permitted to return during the course of that examination.

12. Candidates guilty of any of the following or similar dishonest practices shall be immediately dismissed from the examination, and shall be liable to permanent disqualification for membership in McGill University:—

A. Making use of any books, papers, or memoranda, other than those provided by the examiners.

B. Speaking or communicating with other candidates under any circumstances whatever.

C. Exposing written papers to the view of other candidates.

The plea of accident or forgetfulness shall not be received.

13. Candidates shall write their answers on the right hand pages of the Regulation Answer Book provided for the purpose by the University, entering on the margin nothing but the number or letter of the question they are about to answer. The left-hand page may be used for rough drafts or for scrib-

bling purposes. No other paper than the regulation answer book above mentioned shall be used by the candidates, and no pages may be removed from the books.

14. Candidates are not permitted to leave their places. Should they desire anything, they may signify it by standing up.

15. When the examiner announces that the examination is over, all candidates must leave the hall. On leaving the hall, the examination books must be deposited by the candidates as directed by the examiners.

College Grounds and Athletics.

All matters relating to the management of the College Grounds and of Out-Door Athletics and Sports are under the control of a Committee consisting of :—

One Governor.
The Principal.
One Member of the Faculty of Arts.
One Member of the Faculty of Applied Science.
One Member of the Faculty of Law.
One Member of the Faculty of Medicine.
One Graduate.
One Undergraduate, member of the Football Club.
One Undergraduate, member of the Tennis Club.
One Undergraduate, member of the Cricket Club.
One Undergraduate, member of the Hockey Club.
One Undergraduate, member of the Skating Club.
The President of the Athletic Association.

The several Members of the Committee are elected annually by their respective bodies : and the Committee meets for organization on the third Tuesday in September in each year. The Undergraduate Members of the Committee are entitled to vote only on matters relating to Athletics.

The following extracts are made from the rules and regulations of the Committee, for the guidance of Members of the University and the several Athletic Clubs and Associations which are from time to time permitted to use the grounds :

The University and McTavish Street gates shall be closed between 6 p.m. and 7 a.m. on week days and the whole day on Sunday.

The Sherbrooke Street gates shall be closed between 10 p.m. and 6 a.m.

Such persons as are entitled to use the Grounds shall be provided with tickets renewable each year.

Those entitled to tickets are the Members of the University and prominent Benefactors, and the families of Governors and Professors.

The several Clubs shall be permitted to issue special tickets, entitling the holders to admission to the Grounds for the purpose of viewing matches, or for other special occasions of public interest.

All students desirous of taking part in football matches, or otherwise engaging in violent athletic contests, must pass a medical examination, to be held under the direction of the Medical Director of Physical Training. A complete record of all such examinations shall be kept by the Director or some other officer appointed to this duty. The Managers and Captains of Clubs or other responsible executive officers are required to insist upon the strict observance of the rule in regard to Medical Examination, and all the rules and regulations of the Committee which concern them.

All Clubs must submit their Regulations, Rules, and By-Laws, and any changes in the same, for the approval of the Committee. They must make application for the use of such portions of the Grounds as they require, and for any special privileges.

Clubs must not engage in matches with outside clubs except with the approval of the Committee.

The Athletic Association must submit its programme for each year for the approval of the Committee.

All students of the University are required to pay a fee of three dollars ($3.00) for the use of the Grounds. The amount so paid is handed over to the Committee, and is by it expended in the interest of College Athletics and in the permanent improvement of the portions of the grounds used for Athletics.

UNIVERSITY BUILDINGS.

The Centre Building.

This building, the first and oldest building of McGill College, contains the lecture-rooms of the Faculty of Arts and the Botanical Laboratories in the centre. The East Wing contains the newly equipped Zoological Laboratories, the offices of the Administration, and the lecture-rooms of the Faculty of Law. The West Wing comprises the Molson Convocation and Examination Hall and the Corporation Meeting-room.

The Botanical Laboratories are described in detail on p. 132, the Zoological Laboratories on p. 132.

The Macdonald Engineering Building.

The Engineering Building, erected, equipped and endowed by Sir William C. Macdonald, represents, in architectural effect, a severe treatment of the Italian renaissance. Besides numerous lecture-rooms, students' rooms, a departmental library, and a large technical museum, which holds the Reuleaux collection of Kinematic models—believed to be the most complete in America, the building contains large and thoroughly equipped electrical and magnetic laboratories; dynamo rooms; lighting station; accumulator room; laboratories of Mathematics, Dynamics, Mechanics, Geodesy, Modelling, Testing, and Thermodynamics; workshops (in the annex erected under the bequest of the late Thomas Workman) for Carpentry, Wood-turning, and Pattern-making; Machine shops; Smithy; Foundry, etc.

The whole of one floor is given up to Drawing-rooms, and the Museum of the building contains a large collection of casts illustrative of the historical development of the various styles of architecture and of casts of architectural and figure sculpture.

A detailed description of the laboratories and workshops and their equipment will be found elsewhere.

Macdonald Chemistry and Mining Building.

Admirable facilities are afforded in the Macdonald Chemistry and Mining Building for study and research in the departments of Chemistry, Metallurgy, Mining, Mineralogy and Geology. The building was erected, equipped and endowed by Sir William C. Macdonald. It is spacious, admirably lighted, heated by hot water and ventilated by electric fans. In addition to the large Lecture Theatre, which seats about 250 students, there are four lecture rooms for smaller classes, and a number of offices.

There are three large general Chemical Laboratories, large laboratories for Ore-dressing and Metallurgy and a number of smaller rooms for special purposes, including research work. Among the special laboratories may be mentioned those for Organic Chemistry, Physical Chemistry, Electrolytic Analysis, Gas Analysis, Iron and Steel Analysis, Fire Assaying, Water Analysis, Determinative Mineralogy, Petrography, Photography, etc. The reference library contains about 1,300 volumes.

A detailed description of the laboratories and their equipment is given on pp. 130 and 131.

The Macdonald Physics Building.

The Macdonald Physical Laboratory, another of Sir William C. Macdonald's gifts to the University, contains five storeys, each of 8,000 square feet area. Besides a lecture theatre and its apparatus rooms, the Building includes an elementary laboratory nearly 60 feet square; large special laboratories arranged for higher work by advanced students in Heat and Electricity; a range of rooms for optical work and photography; separate rooms for private thesis work by students; and two large laboratories arranged for research, provided with solid piers and the usual standard instruments. There are also a lecture room, with apparatus room attached, for Mathematical Physics, a special physical library, and convenient workshops. The equipment is on a corresponding scale, and comprises: (1) apparatus for illustrating lectures; (2) simple forms of the principal instruments for use by the students in practical work: (3) the most recent types of all important instruments for exact measurement, to be used in connection with special work and research.

A detailed description of the laboratories and their equipment is given on pp. 129 and 130.

Medical Buildings

The present main building of the Faculty of Medicine was erected in 1873. In 1885, and again in 1893, large additions and alterations were made to the buildings. These again, however, have proved inadequate, and a thorough reconstruction and enlargement of the buildings has lately been completed. The present buildings comprise several large lecture theatres; a large reading room, managed by the students themselves; a fine medical library; dissecting rooms; and a large number of completely equipped laboratories for Physiology, Histology, Pharmacology, Chemistry, Hygiene, Bacteriology, and Pathology, in addition to numerous museums, preparation rooms, and offices. Clinical teaching is conducted in the theatres, wards, outpatient rooms, and laboratories of the Montreal General Hospital, the Royal Victoria Hospital, and the Montreal Maternity Hospital.

A detailed description of the laboratories and museums is given under Faculty of Medicine.

The Royal Victoria College for Women.

This residential college for the Women Students of McGill University, erected and endowed by Lord Strathcona and Mount Royal, is situated on Sherbrooke Street, in close proximity to the University buildings and laboratories. The Professors and Lecturers of the University are thereby enabled to give their services in the conduct of the College classes.

Full particulars of the College, terms of residence, etc., are given elsewhere.

The University Library.

Librarian:—Charles H. Gould, B.A.

The general library is housed in the fine Romanesque building erected in 1893 by the late Mr. Peter Redpath.

Dignified and convenient as originally designed, it has recently been improved and greatly enlarged by the liberality of Mrs. Peter

University Library.—Main Reading Room.

Redpath Museum.—Interior View.

Redpath. It now possesses ample accommodation for three hundred and fifty readers, of whom fully one hundred can be provided for in the seminary rooms and special studies.

The main architectural feature of the interior is the general reading room, 110 feet long, 43 feet wide, and 44 feet high. It will seat one hundred and fifty readers and has open shelves for about 4,000 volumes.

The book stack, four and five storeys high, of approved type, excellently lighted and ventilated, with four reading bays on each storey, has a working capacity of 250,000 volumes, besides special provision for the storage of maps and of newspapers.

Library regulations, with a description of the collections are given elsewhere.

The Peter Redpath Museum.

Senior Curator—Prof. B. J. Harrington, M.A., LL.D.

This building was erected in 1882 by the liberal benefactor whose name it bears. It occupies a commanding position at the upper end of the campus, and besides its central hall and other rooms devoted to the collections, contains a large lecture-theatre, class-rooms, and work-rooms.

The general arrangement of the collections is as follows:—

1. The Botanical Room on the ground floor contains the Herbarium, consisting of 50,000 specimens of Canadian and exotic plants and collections illustrating structural and economic botany.

2. On the first floor is a room over the entrance hall, in which are cases containing archæological and ethnological objects, including collections from the Queen Charlotte Islands, from Egypt, and from South Equatorial West Africa.

3. This room opens into the great Museum Hall, on each side of which are alcoves with upright and table cases containing the collections in Palaeontology, arranged primarily to illustrate the successive geological systems, and subordinately to this, in the order of zoological and botanical classification, so as to enable the student to see the general order of life in successive periods, and to trace any particular group through its geological history.

4. At the extreme end of the Hall are placed the collections of minerals and rocks, arranged in such manner as to facilitate their systematic study. In the centre of the Hall are economic collections and large casts and models.

5. In the upper story or gallery of the great Hall are placed the zoological collections; the invertebrate animals in table cases in regular series, beginning with the lower forms; the vertebrate animals in upright cases, in similar order. The PHILIP CARPENTER COLLECTION of shells is especially noteworthy for its arrangement and completeness.

Papers or memoirs relating to certain type specimens in the collections can be obtained from the Museum Assistant. Classes of pupils from schools can be admitted on certain days under regulations which may be learned from the Professors or from the Registrar of the University.

Observatory.

Latitude, N. 45° 30′ 17″. Longitude, 4h· 54m· 18s· 67.

Height above sea level, 187 feet.

Superintendent—C. H. McLeod, Ma.E.

The Observatory in which courses of instruction are given in the use of meteorological instruments and in astronomical work, is situated at the head of the University campus.

Meteorological observations.—Records of temperature, atmospheric pressure, wind velocity and direction, and sunshine are obtained by self-recording instruments. Check observations are made at 7.40 a.m., 3 p.m., and 7.40 p.m. on standard instruments.

The principal instruments employed are two standard mercurial barometers; one Richard barograph; one Richard thermograph; one Callendar thermograph; one Kew standard thermometer; two Pastorelli thermometers; one maximum thermometer; one minimum thermometer; one set of six self-recording thermometers, with controlling clock, battery, etc.; two anemometers; one wind vane; one anemograph with battery, etc.; one sunshine recorder; one rain-band spectroscope and one rain gauge.

The Anemometer and Vane are on the summit of Mount Royal, at a point about three-quarters of a mile north-west of the Observatory. They are 57 feet above the surface of the ground and 810 feet above sea level.

Soil temperatures are observed, in co-operation with the Physical Laboratory, by means of platinum thermometers at depths ranging from one inch to nine feet.

The astronomical equipment consists of:—The Blackman Telescope (6¼ in.); a photoheliograph (4½ in.); a 3¼ in. transit with striding level, etc.; a prismatic (8cm.) transit instrument, also arranged as a zenith telescope; a 2 in. transit in the prime vertical; two collimating telescopes; one sidereal clock; one mean time clock; one sidereal chronometer; one mean time chronometer; one chronograph; batteries, telegraph lines, and sundry minor instruments.

Observations for clock errors are made on nearly every clear night. Time exchanges are regularly made with the Toronto observatory. Time signals are distributed throughout the city by means of the noon time-ball, continuous clock-signals, and the fire-alarm bells; and to the country through the telegraph lines.

The longitude of the Observatory was determined in 1892 by direct telegraph connection with Greenwich, with exchange of observers and instruments. The position is believed to be the most accurately determined in America.

Gymnasia.

The University Gymnasium.

Medical Director of Physical Training:—R. Tait McKenzie, B.A., M.D.

Instructor:—W. L. Jacomb.

The classes, which are open to men students of all the Faculties, will meet at the University Gymnasium at hours to suit, as far as possible, the convenience of students, and to be announced at the commencement of the Session.

Special attention is given to the application of exercise in treating cases of weakness or deformity, which should be reported to the Medical Director before the regular class work is undertaken.

The Wicksteed Silver and Bronze Medals for Physical Culture (the gift of Dr. R. J. Wicksteed) are offered for competition to students of the graduating class and to students who have had instruction in the Gymnasium for two sessions; the silver medal to the former, the bronze medal to the latter.

The award of these medals is made by Judges, appointed by the Corporation of the University.

Every competitor for the silver medal is required to lodge with the Judges, before the examination, a certificate of good standing in the graduating class signed by the Dean or Registrar of the Faculty to which he belongs, and the medal will not be awarded to any student who may fail in his examination for the degree.

The Royal Victoria College Gymnasium.

Classes for Women Students are conducted in Swedish gymnastics in the Gymnasium of the Royal Victoria College, at hours arranged to suit the convenience of the students. All students are required to pass a satisfactory medical examination before engaging in basket ball, or other exercises in the gymnasium. The Strathcona prizes of $20 and $10 are open for competition to students of the Second and Fourth Years, under the following regulations:

(1) Competitors must be able to show an attendance of 65% on the gymnastic classes throughout the session.

(2) No prize shall be awarded unless the judges consider the work up to a standard of 75%.

(3) The prize shall be awarded if one candidate reach the required standard, even if there be no competition.

(4) The prize shall not be awarded should the winner fail in obtaining her full academic standing.

(5) A programme from which the exercises are to be chosen will be posted in the Gymnasium at the beginning of each session (not later than October 15th of each year) and the actual programme of the competition will be posted not later than January 15th.

(6) Judges for these competitions shall be appointed yearly by the Corporation, on recommendation of the Medical Director of Physical Training.

These conditions shall also apply to the prize of $40 offered for competition by the ladies of Miss Holmstrom's Gymnastic Class.

Faculty of Arts.

THE FIRST DAY OF LECTURES, SESSION 1904-1905, WILL BE WEDNESDAY, SEPTEMBER 21st.

I. REGULATIONS FOR ENTRANCE.

(1) For those intending to proceed to a degree.
See pp. 10-21.

(2) For Partial Students.

Candidates wishing to enter any of the classes of the First Year as Partial Students must first present to the Dean certificates of having taken a satisfactory course of school instruction. In order to obtain admission to the classes in French, intending students must have passed the University Matriculation Examination, or an equivalent examination in that subject.

II FEES AND REGISTRATION.

See pp. 29-31.

III. SCHOLARSHIPS AND EXHIBITIONS*.

GENERAL REGULATIONS.

1. A Scholarship is ordinarily tenable for *two* years; an Exhibition for *one* year.

2. Scholarships are open for competition to students who have passed the University Intermediate Examination, provided that not more than three sessions have elapsed since their matriculation; and also to canlidates who have obtained what the Faculty may deem equivalent standing in some other University, provided that application be made before the end

* In the Session 1904-1905 the Scholarship and Second Year Exhibition Examinations will begin on Wednesday, September 14th.

Arts Building.

of the Session preceding the examination. For details of the examination, see pp. 59-61.

3. Exhibitions are assigned to the First and Second Years.

First Year Exhibitions are open for competition to candidates for entrance into the First Year. The examination is held in autumn. For details, see pp. 59-61.

Second Year Exhibitions are open for competition to students who have passed the First Year Sessional Examinations, provided that not more than two sessions have elapsed since their Matriculation; and also to candidates for entrance into the Second Year. The examination is held at the beginning of every session, in September. For details, see pp. 57-59.

4. The Second Year Exhibition Examination will, for candidates who have not previously entered the University, be regarded as a Matriculation Examination.

5. No student can hold more than one Exhibition or Scholarship at the same time.

6. Exhibitions and Scholarships will not necessarily be awarded to the candidates who have obtained the highest marks. An adequate standard of merit will be required.

7. If in any College Year there be not a sufficient number of candidates showing adequate merit, any one or more of the Exhibitions or Scholarships offered for competition may be given to more deserving candidates in another year.

8. A successful candidate must, in order to retain his Scholarship or Exhibition, proceed regularly with his College Course to the satisfaction of the Faculty.

9. The annual income of the Scholarships or Exhibitions will be paid in four instalments, viz.:—In October, December, February and April, about the 20th day of each month.

10. For the Session 1904-1905 there will be twenty-nine Scholarships and Exhibitions, including the following:—

The Jane Redpath Exhibition, founded by Mrs. Redpath, of Terrace Bank, Montreal:—value, about $90 yearly, open to both men and women.*

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* Resolutions are now in force by which all Exhibitions and Scholarships have been thrown open without restriction of sex, "except in cases where the deeds of gift or the ascertained wishes of the donor expressly preclude such a course: it being understood that in the event of the establishment of any large number of Exhibitions and Scholarships specially appropriated to either of the sexes by the terms of the foundation, the Board of Governors may again restrict some of those now existing in favour of the other sex."

Ottawa Valley Graduates' Society Exhibition, awarded on the results of the June Examination.

Two Sir William Dawson Exhibitions, given by the New York Graduates' Society:—value, one $62, and the other $60 yearly.

Ten Macdonald Scholarships and Exhibitions, founded by Sir W. C. Macdonald, Montreal:—value $125 to $150 each, yearly.

The Charles Alexander Scholarship, (for men students), founded by Charles Alexander, Esq.,. Montreal, for the encouragement of the study of Classics and other subjects:—value $90 yearly.

The Major H. Mills Scholarship, founded by bequest of the late Major Hiram Mills:—value $100 yearly.

The Barbara Scott Scholarship, founded by the late Miss Barbara Scott, Montreal, for the encouragement of the study of the Classical languages and literature:—value $100 to $120 yearly.

The Mackenzie Scholarship for Economics and Political Science, founded in memory of the late Hon. Alexander Mackenzie: value $150 yearly.

Four Exhibitions in the Royal Victoria College, open to women only:—ranging in value from $75 to $200 yearly.

One Royal Victoria College Scholarship, for women:—value $150 yearly.

Research Scholarship in Chemistry.

It is proposed to offer in September, 1904, a Research Scholarship in Chemistry, on the endowment of the late Dr. T. Sterry Hunt, to graduate students in the Faculties of Arts and Applied Science. (For particulars apply to the Professor of Chemistry.)

FIRST YEAR EXHIBITIONS.

Faculty of Arts.

First Year Exhibitions

The following seventeen Exhibitions are offered for competition in June, 1904, to candidates for admission to the First Year:

Three C (Advanced), each of $300.

For particulars see pp. 54–56.

(Not transferable to other divisions below or other years.)

Five B (Higher), each of $150.
For particulars see pp. 51–54.

(Any or all of these may be raised to $200, if the answering is sufficiently good, and if there be other Exhibitions unawarded.)

Five A (Ordinary Matriculation, B.A. course), viz., two of $125 each; three of $100 each.

Two A (Ordinary Matriculation, B. Sc. course) of $100 each.

Two R. V. C. Exhibitions for Ordinary Matriculation, open to women only, and conditional on residence in the Royal Victoria College, viz., one of $200, and one of $100.

The examination for First Year Exhibitions will be held each year in connection with the Matriculation Examination in June, and will commence in 1904 on June 6th.

These Exhibitions are open to men and women on equal terms, unless the contrary is stated.

No candidate can hold two Exhibitions at the same time.

Blank forms of application, to be obtained from the Registrar of the University, must be filled out and returned before the 1st of May, 1904.

In his application the candidate will specify the degree (B.A. or B. Sc) to which he intends to proceed. The tenure of an Exhibition is conditional on the pursuit of the corresponding curriculum (B. A. or B. Sc.) in the First Year.

A. EXHIBITIONS.

The A (Ordinary Matriculation) Exhibitions will be awarded on the results of the Matriculation Examination only, whether for B.A. or B.Sc. The marks taken in the subjects of the Preliminary Division of the Examination, viz., English Grammar, Composition, Dictation, Arithmetic and British History, will not be taken into account in the competition, and candidates who have previously passed in those subjects will not be required to repeat the examination.

(For details of requirements in the different subjects see pp. 16–21.

B. EXHIBITIONS.

The B (Higher) Exhibitions will be awarded on the results of an examination in the subjects required for Matriculation, together with additional work in any *three* of the following:

provided, however, that the Ordinary Matriculation papers in the three lyceon have also been taken:—

English.
Latin.
Greek.
French.
German.
Mathematics, Part II.

A candidate, not successful, may nevertheless receive an A. Exhibition, but in determining this, the marks for the additional work will not be taken into account.

The details of the additional work in the above subjects are as follows:—

English.

Grammar.—An advanced knowledge of this subject will be required, and, in addition, some acquaintance with the historical development of English as illustrated in common and important words. The candidate is recommended to read Mason's or West's Elements of English Grammar, and expected to supplement Mason or West by using Morris's Historical Outlines of English Accidence (Macmillan & Co.) as a book of reference.

Literature, 1904 and 1905.——Milton, L'Allegro and other short poems, ed. Bell (Macmillan & Co.); Macaulay, Essays on Byron, Warren Hastings, Clive.

Composition.—The candidate will be required to write an essay on some subject connected with the examination.

Provided two months' notice be given, candidates may substitute in any year an equivalent amount from the works prescribed for the Senior Leaving Examination of the Province of Ontario, Grade XII of the Province of Nova Scotia, or the Senior Leaving Examination of the Prince of Wales College, P.E.I.

Latin.

Grammar; Translation at Sight; Prose Composition.

Text-Books.—Sonnenschein's *or* Allen and Greenough's Latin Grammar; Arnold's Latin Prose Composition by Bradley, *or* Collar's Latin Composition, Parts III and IV.

Translation from the following prescribed books:—

1904 and 1905, Horace, Odes III.

Provided two months' notice be given, candidates may substitute in any year an equivalent amount from the works prescribed for the Senior Leaving Examination of the Province of Ontario, Grade XII of the Province of Nova Scotia, or the Senior Leaving Examination of the Prince of Wales College, P.E.I.

Greek.

Grammar; Translation at Sight; Prose Composition.

Text-Books.—Sonnenschein's *or* Rutherford's Greek Grammar, *or* Burnet's Greek Rudiments, *or* White's First Greek Book; Abbott's Arnold's Greek Prose Composition.

Translation from the following prescribed books:—

1904 and 1905. Homer, Odyssey VII; Euripides, Hecuba (Sidgwick's Selections).

Provided two months' notice be given, candidates may substitute in any year an equivalent amount from the works prescribed for the Senior Leaving Examination of the Province of Ontario, Grade XII of the Province of Nova Scotia, or the Senior Leaving Examination of the Prince of Wales College, P.E.I.

In both Latin and Greek, candidates who do not offer the books prescribed above will have the option of an additional paper in Composition and Translation at Sight.

French.

(*a*) Grammar, including Syntax; (*b*) Translation at sight of French into English; (*c*) Translation at sight of easy English prose passages into French; (*d*) Translation from the following texts:—

1904. Sarcey, Le Siège de Paris (Heath & Co.); Sandeau, Mademoiselle de la Seiglière (Heath & Co.); About, Le Roi des Montagnes (Heath & Co.).

1905. Augier, Le Gendre de M. Poirier (Heath & Co.); DeVigny, La Canne de Jone (Heath & Co.); Sand, La Mare au Diable (Heath & Co.).

Provided two months' notice be given, candidates may substitute in any year an equivalent amount from the works prescribed for the Senior Leaving Examination of the Province of Ontario, Grade XII of the Province of Nova Scotia, or the Senior Leaving Examination of the Prince of Wales College, P.E.I.

German.

(*a*) Grammar.—Accidence and Syntax; (*b*) Translation at sight from German into English; (*c*) Translation at sight into German of an easy passage of English prose; (*d*) Translation and grammatical study of the following texts:—

1904. Sudermann, Der Katzensteg (Heath & Co.); Schiller, Wilhelm Tell (Macmillan & Co.), *or* Leander, Träumereien (Copp, Clark Co.); Gerstaecker, Germelshausen (Heath & Co.).

1905. Schiller, Maria Stuart (Heath & Co.); Freytag, Die Journalisten (Heath & Co.); Keller, Kleider machen Leute (Heath & Co.).

Provided two months' notice be given, candidates may substitute in any year an equivalent amount from the works prescribed for the Senior Leaving Examination of the Province of Ontario, Grade XII of the Province of Nova Scotia, or the Senior Leaving Examination of the Prince of Wales College, P.E.I.

Mathematics, Part II.

Geometry.—Euclid's Elements, Books IV and VI, with definitions of Book V, and easy deductions.

Algebra.—The three Progressions, Ratio, Proportion, Variation, Permutations and Combinations, Binomial Theorem, Logarithms, Interest and Annuities, as in Hall & Knight's Elementary Algebra, omitting Chapters 36, 40, 41, 42, or in similar text-books.

Trigonometry.—Measurement of Angles, Trigonometrical ratios or functions of one angle, of two angles and of a multiple angle, as in Hamblin Smith, pp. 1-105, or as in Lock's Elementary Trigonometry, Chapters I-XII, or in similar text-books.

C. EXHIBITIONS.

Examination in Special Courses.

In awarding the C (Advanced) Exhibitions, the marks for ordinary matriculation will not be taken into account. A pass in the subjects chosen will, however, count towards matriculation, and in order to complete his matriculation, a candidate will take the ordinary papers in the remaining subjects required.

Candidates who have previously taken the matriculation examination in this University, or who matriculate on certificates, will not be required to take the ordinary papers.

A candidate, not successful, may nevertheless receive a B or an A Exhibition if he has fulfilled the conditions for them given above. The special papers set for C will, in this case, be regarded as papers both for B and A.

In the awarding of these Exhibitions, marked excellence in any subject will be taken into special account, but a satisfactory standard will be required in all the subjects offered.

Of the subjects in the following list, candidates are required to select three. No credit will be given for work in a fourth subject.

English (including History).
Mathematics.
Latin.
Greek.
French.
German.

The details of the requirements in each subject are as follows:

English and History.

1904. *Language.*—Toller, Outlines of the History of the English Language (Macmillan & Co.).

Literature.—Coleridge, Ancient Mariner, ed. Bates (Longmans); Wordsworth, Selections, ed. Webb (Macmillan & Co.); Tennyson, Selections, ed. Rowe and Webb (Macmillan & Co.); Shakspere, Merchant of Venice, As You Like It, Julius Cæsar, all three plays edited by Deighton (Macmillan & Co.).

History.—Green's Short History of the English People.

Composition.—An essay on some subject connected with the works specified.

1905. Milton, L'Allegro, and other poems, ed. Bell (Macmillan & Co.); Macaulay, Essays on Byron, Warren Hastings and Clive; Coleridge, Ancient Mariner, ed. Bates (Longmans); Wordsworth, Selections, ed. Webb (Macmillan & Co.); Shakspere, Merchant of Venice, As You Like It, Julius Cæsar, all three plays edited by Deighton (Macmillan & Co.).

History.—Green's Short History of the English People.

Composition.—An essay on some subject connected with the works specified.

Mathematics.

Geometry.—Hall's Elements, Books I, II, III, IV, VI, with theorems of Book V, and problems.

A special paper will be set in problems. Candidates are recommended to study the theorems and examples in Hall & Stevens' edition.

Algebra.—Elementary Rules, Involution, Evolution, Fractions, Indices, Surds, Simple and Quadratic Equations of one or more unknown quantities, the three Progressions, Ratio, Proportion, Variation, Permutations and Combinations, Binomial Theorem, Logarithms, Interest and Annuities, as in Hall & Knight's Elementary Algebra, omitting Chapters 36, 40 and 42.

Trigonometry.—To the end of the Solution of Triangles.

Latin.

Higher Grammar, Higher Prose Composition and Translation at Sight. Passages for translation from the following books:—

1904 and 1905. Virgil, Aeneid I-VI; Horace, Odes III; Cicero, Catiline Orations.

Greek.

Higher Grammar, Higher Prose Composition and Translation at Sight. Passages for translation from the following books:—

1904 and 1905. Homer, Odyssey I-VII; Euripides, Hecuba and Alcestis.

French.

Higher Grammar, Higher Prose Composition and Translation at Sight. Passages for translation from the following texts:—

1904 and 1905. Augier, Le Gendre de M. Poirier (Heath & Co.); DeVigny, La Canne de Jonc (Heath & Co.); Sand, La Mare au Diable (Heath & Co.); Thierry, Récits des Temps Mérovingiens (Pitt Press); Mme de Staël, Le Directoire (Pitt Press).

German.

Higher Grammar, Higher Prose Composition and Translation at Sight. Passages for translation from the following texts:—

1904 and 1905. Auf der Sonnenseite (Heath & Co.); Storm, Immensee (Heath & Co.); Schiller, Maria Stuart (Heath & Co.); Freytag, Die Journalisten (Heath & Co.); Keller, Kleider machen Leute (Heath & Co.); Lessing, Minna von Barnhelm.

SECOND YEAR EXHIBITIONS.

The following exhibitions are offered for competition to students entering the Second year, in September, 1904:—

Three of $150, open to both colleges.
Three of $75 open to both colleges.

The subjects of examination are divided into two groups as follows:—

Group I.—Greek, Latin, French, German, English.
Group II.—Mathematics, Physics.

Candidates are required to offer two major subjects and one minor subject. The two major subjects must be selected from the same group, the minor subject from either group, the examination in the major subject being more extensive than that in the same subject presented as a minor subject. Two exhibitions of $150 each and two of $75 each are offered to candidates taking their major subjects from Group I, and one exhibition of $150 and one of $75 to candidates taking their major subjects from Group II.

The above exhibitions are open to all undergraduates in arts, whether they are taking the B.A. or the B.Sc. course.

Details of the Requirements in each Subject.

Greek.

(*As a Major Subject*).

I. (*a*) Lucian, Charon and Somnium (Heitland, Pitt Press).
(*b*) Plato, Apology (Stock).
(*c*) Euripides, Hecuba (Upcott, Bell & Sons).
II. Composition and Translation at Sight:—Fletcher and Nicholson's Greek Prose Composition.
III. History:—Bury's History of Greece.

(*As a Minor Subject*).

The same as above, omitting I *c*.

Latin.

(*As a Major Subject*).

I. (*a*) Virgil, Georgics I & IV (Page, Macmillan).
(*b*) Cicero, De Senectute (Warman, Bell & Sons).
(*c*) Tacitus, Agricola (Pearce, Bell & Sons).

II. Composition and Translation at Sight.

III. History: How and Leigh's History of Rome, Chaps. XVII-XLIV (from the First Punic War to the death of Sulla).

(*As a Minor Subject*).

The same as above, omitting I *c*.

French.

(*As a Major Subject*).

(*a*) Grammar; (*b*) Translation at sight of an English passage into French; (*c*) French composition on a prescribed subject; (*d*) a critical study of the following texts, tested by questions in the French language, to be answered in French:—

Corneille, Cinna; Molière, L'Avare; Daudet, La Belle Nivernaise (Holt & Co.).

(*As a Minor Subject*).

The same as above, omitting Molière, L'Avare.

German.

(*As a Major Subject*).

(*a*) Grammar; (*b*) Translation at sight from German into English, and from English into German; (*c*) a critical study of Die Braut von Messina, and of the lives of Schiller and Goethe; (*d*) Translation from the following texts:—Schiller, Die Braut von Messina; Goethe, Goetz von Berlichingen; Rosegger, Der Waldschulmeister (Holt & Co.).

(*As a Minor Subject*).

The same as above, omitting Schiller, Die Braut von Messina.

English.

(*As a Major Subject*).

Shakspere, As You Like It (Ed. Deighton, Macmillan); Milton, Comus (Ed. Bell, Macmillan); Johnson, Lives of Dryden and Pope (Ed. Milnes, Clarendon Press Series).

History.—Church, Middle Ages.

(*As a Minor Subject*).

The same as above, omitting Comus.

Mathematics.

(As a Major Subject).

Plane Geometry.—Ordinary and advanced section courses of the First Year.

Algebra.—Selected course from Chaps. I-XXXII of Hall and Knight's Higher algebra.

Theory of Equations.—Selected course from Burnside and Panton.

Plane Trigonometry.—As in the Ordinary and advanced section courses of the First Year.

(As a Minor Subject).

The mathematics of the First Year Ordinary Course.

Physics.

As in Carhart and Chute.

THIRD YEAR SCHOLARSHIPS.

The following six scholarships, of the annual value of $150 each, will be open for competition in September, 1904:—

One for English and another language.

One for Latin or Greek and another language* (English excepted).

One for French or German and another language* (English excepted).

Two for Mathematics and Physics.

One for Biology and Chemistry.†

In the event of no candidate of sufficient merit presenting himself, the scholarship assigned to any group of subjects may, at the discretion of the Faculty, be awarded in another group, whether a scholarship has been already assigned to that group or not.

Of the two Third Year Scholarships assigned to Mathematics and Physics, one is open to women only, the other to men only. Should, however, no candidate be eligible for the scholarship open to men only, it may be awarded to a woman.

A scholarship shall ordinarily be continued in the fourth year, but only on condition that the work of the third year has proved satisfactory.

Mackenzie Scholarship.—This scholarship will be awarded on the result of the Third Year's work, to a student reading for

* The language not chosen in the first instance may be taken as the second language.
† In September, 1904, Chemistry only will be required.

Honour in History and Economics, Course B. (see p. 109). During the second year a suitable course of post-graduate work be offered. The holder will be required to continue his work in the Honour course specified above. The value of the scholarship is $150 per annum. It cannot be held concurrently with any other scholarship.

Details of the Requirements in each Subject.

Greek.

Plato, Phaedo, Selections, pp. 1-95 (Clarendon Press); Sophocles, Oedipus Rex (Jebb, Pitt Press).

Prose Composition and Translation at Sight.

Latin.

Horace, Epistles, Book I (Wilkins, Macmillan); Cicero, Selections from Letters, Tyrrell (Macmillan), pp. 1-83; Virgil, Aeneid, Book VII, Sidgwick (Pitt Press); Sallust, Catiline, Cook (Macmillan).

Prose Composition and Translation at Sight.

Ancient History.

Text-books.—Bury, History of Greece, chapters on the Peloponnesian War (Macmillan); How and Leigh, History of Rome to the Death of Caesar (Longmans).

English and History.

Literature.—Shakspere, Tempest, ed. Deighton (Macmillan); Milton, Lycidas, Lo:, Book I and II, ed. Macmillan (Macmillan); Lamb, Essays of Elia, ed. Hallward and Hill (Macmillan); Chaucer's Knightes Tale. *History*:—Robinson, Introduction to the History of Western Europe (Ginn & Co.). *Composition.*—The candidate will be required to write an essay on some subject connected with the literature or history prescribed. Eight marks will be given for this essay. A paper on the work of the second year.

French.

Composition (a) Translation at sight from French into English. (b) Questions on the subject-matter of the following

texts, the lives of their authors and the periods they represent:—

For 1901.—Molière, Tartuffe; Racine, Iphigénie; Vigny, Cinq Mars (Heath); Musset, Les Nuits.

The entire examination will be held in the French language.

German.

(*a*) Composition; (*b*) Translation at sight from German into English; (*c*) Questions on the subject matter of the following texts, the lives of their authors and the periods they represent:—

For 1901.—Schiller, Don Carlos; Goethe, Dichtung und Wahrheit (Heath); Immermann, Der Oberhof (Pub. Press); Keller, Dietegen (Ginn).

Mathematics.

Differential and Integral Calculus. — Lamb's Infinitesimal Calculus.

Analytic Geometry.—Charles Smith's Conic Sections.

Higher Trigonometry.—Lock's Higher Trigonometry.

Spherical Trigonometry. — McLellan and Preston, Spherical Trigonometry, Part I.

Algebra.—Determinants as in Burnside and Panton's Theory of Equations.

Physics.

Electricity and Magnetism.—S. Thompson.

Chemistry.

Reading.—Mendeléef's Principles of Chemistry. *Essay.*—A discussion of the Elements in the Second and Fourth groups of Mendeléef's Table, from the standpoint of the Periodic Law.

Biology.

Goebel's Organography, Vol. I.; Bower, F. O., The Origin of the Sporophyte in Ferns (Trans. Royal Soc.); Huxley, Elementary Lessons in Physiology; Verworn, General Physiology; a paper on the work done during the previous year.

IV. REGULATIONS FOR DEGREES IN ARTS.

Regulations for the Degree of B.A.

After passing the First Year Matriculation Examination, an Undergraduate, in order to obtain the Degree of B.A. or B.Sc., is required to attend regularly the appointed courses of lectures for four years, and to pass the required Examinations in each year. He cannot take more than the number of subjects specified for each year without the special permission of the Faculty, nor can he proceed with his course unless he passes each examination in its assigned order. In case of failure to pass any of these examinations, permission to recover standing by passing Supplemental Examinations must be obtained from the Faculty. The conditions under which such permission is granted are stated on pp. 69–70. Undergraduates are arranged in Years, from First to Fourth, according to their academic standing.

1. Ordinary Course for the Degree of B.A.

N.B.—The Arabic numerals refer to the numbering of the courses on pp. 78, et seqq: for example, Greek, 2, refers to the second course given in the Department of Classics, p. 79.

First Year.

First Year.

Greek, 1, *or* **Latin, 1.**
English, 1A, 1B, and **History, 1.**
Mathematics, 1.
Latin, 1, *or* **Greek, 1,** *or* **French, I, 2,** *or* **German, 2.**
Physics, 2.

French cannot be taken as a qualifying option in the First Year, except by students who have passed the Matriculation Examination in this subject.

An additional Language may be taken as an extra subject in the first two years, if application be made to, and permission obtained from, the Faculty at the beginning of the Session. Credit will be given for it on application.

Advanced Sections.

With a view to the encouragement of higher work, Advanced Sections will be formed in all subjects as far as practicable, and in these Honours may be awarded. Permission to take an advanced section is granted by the Professor.

Students taking the work of advanced sections may be excused from the work of the corresponding ordinary courses on the

recommendation of the professor. No exemptions from other subjects will be granted to students in advanced sections.

Second Year.

Second Year.

Any Three, of which (d), (e), or (g) must be one.

- (a) English, 2.
- (b) Latin, 2, *or* Greek, 2.
- (c) Greek, 2, *or* Latin, 2, *or* a Modern Language.
- (d) Mathematics, 3, *or* Elementary Biology, 1.
- (e) Chemistry, 1, Laboratory work in addition.
- (f) Logic and Psychology, 1A, 1B.
- (g) Hebrew, 1.
- (h) German *or* French.

Students intending to take the double course in Arts (B.A.) and Applied Science must take Mathematics and Chemistry: those intending to take the double course in Arts (B.A.) and Medicine must take Chemistry and Biology.

Advanced Sections will be formed in the Second Year, as in the First. Advanced Sections.

Third and Fourth Years.

The subjects of the Third and Fourth Years are arranged in the following divisions:— Third and Fourth Years.

Language and Literature.	History, Philosophy and Law.	Science.
English, 3A, 3C, 4A, 4B, any two; or for any two, 3C.	Philosophy, 3, 4, 5 *or* 6.	Mathematics, 3.
Latin, 3, 4.	History, 2.	Mechanics, 4, and Astronomy, 4. (Two half courses).
Greek, 3, 4.	Economics, 1.	Physics: Sound, Light, Heat (full course), 2.
Sanskrit, 1A, 1B.	Political Science, 6.	Electricity and Magnetism (full course), 3.
Comparative Philology. (half course), 1A, 1B.	Constitutional Law and History.	Chemistry, 2, 3, 4; 5, 6, *or* 7, 8.
Frenoh, 5	Roman Law, 1.	Geology, 1.
German, 4.		Zoology, 2.
Italian, in alternate years.		Botany, 2, 3.
Semitic Languages, 2, 3.		Physiology, Anatomy (*In the Faculty of Medicine.*)

From the above divisions six courses are to be selected by each student in the Third and Fourth Years, three in each year.

Each will be studied in lecture courses extending over not more than four hours per week, with collateral reading, and, in the case of the science subjects, laboratory work. One subject chosen in the Third Year *must* be continued by every student in the Fourth Year (Political Science, 6, will be accepted as a continuation of Economics, 1, and *vice versa*); two subjects *may* be continued if application to that effect be granted by the Faculty or the Advisory Committee of the Faculty. Of the whole six courses, one must be chosen by all candidates from the list of subjects included under the head of Science, except in cases where Chemistry or Biology has been selected as an option in the Second Year.

Every undergraduate in the Third and Fourth Years is required to submit to the Faculty, for their approval, at the beginning of the session, a written statement of the subjects he proposes to study during the session. He will not be allowed to discontinue any of these, if approved, or begin any other, without the special permission of the Faculty.

The Advisory Committee will meet not later than Oct. 1st in each session, and report on the selections of subjects to the Faculty. It may also report on the subjects chosen by the First and Second Years.

In order to differentiate the B.A. curriculum from that laid down for the B.Sc. (Arts), candidates for B.A. are debarred from selecting more than three out of their six courses from the Science Division. Five courses are allowed in all other cases (except as far as regards the selecting of at least one subject from the Science Division), subject to approval by the Faculty, or the Advisory Committee of the Faculty.

In addition to the six courses, a course of one hour a week in English Composition (3**D**, 4**C**) must be taken by every candidate for the Ordinary B.A. in the Third and Fourth Years and also by Honour students in English.

For degrees of each category, see Courses of Lectures, pp. [illegible]

A candidate who seeks to obtain an Ordinary B.A. Degree of the First Class must fulfil the following conditions: he must not only obtain the required aggregate of marks (viz. three-fourths of the maximum), but he must also obtain First Class standing in three of his subjects, and not less than Second Class in any subject.

Professional Students.

For arrangements enabling Students in Medicine or Applied Science to take the course in Arts also, and obtain B.A., and B.Sc. (Applied Science), or M.D., in six years, see pp. 71–73; and for the course leading to the degrees of B.Sc. (Arts) and M.D. in six years, see pp. 73 and 74.

2. Honour Courses for the Degree of B.A.

Honour Courses.

Honours of First, Second, or Third Rank will be awarded to successful candidates in any Honour Course established by the Faculty, provided they have passed creditably the regular Examinations in all the subjects proper to their year.

Third Year Honours.

A student proposing to read for an Honour Course in the Third Year

(1) Must satisfy the Department of his qualifications to proceed with the subject or subjects in question;

(2) Must have obtained at least Second Class in three subjects in the Sessional Examination of the Second Year. Should he have failed in any subject, he must, in the other subjects, have obtained at least four Seconds or their equivalent. A First and a Third may be considered equivalent to two Seconds. In every case in which the subjects of an Honour Course are represented in the Second Year Course, one of the Second Classes required must be in the subject, or one of the subjects, of the Honour Course.

(3) While attending lectures he must make progress satisfactory to the Department. In case his progress is not satisfactory he may be notified by the Faculty to discontinue attendance.

A candidate for Honours must take the Ordinary Course in the subject in which he is reading for Honours, but where the Honour Course corresponds to two ordinary subjects, a candidate may, at the discretion of the Department, be exempted from attendance on lectures in these ordinary subjects for a number of hours not exceeding four weekly. In addition to the Ordinary subject specified above, he is required to take a second Ordinary subject, which may be determined by the Department in which he is a candidate for Honours. The Faculty may, on the recommendation of the Department, exempt any student from the obligation to take a second ordinary subject.

A student who desires to be a candidate for B.A. Honours must have taken at least Second Rank Honours in the Third Year. In this case he shall be required to take only one subject in his Ordinary Course, viz., that in which he is reading for Honours. A Candidate, however, who obtains Third Rank Honours at the B.A. Examinations, will not be allowed credit at the end of the Session for the exemption from other ordinary subjects, unless the examiners certify that his knowledge of the whole Honour Course is sufficient to justify it.

Honour lectures are open to all Partial Students who can satisfy the Professor of their fitness to proceed with the work of the course. Such students will not be ranked with Undergraduates in the Examination lists.

No student is allowed to attend two Honour Courses without the special permission of the Faculty.

Note.—For subjects of Ordinary Courses, see p. 78, *et seqq.*

The following are the subjects in which Honour Courses are at present offered. Students who desire to graduate with Honours in any of them are strongly recommended to take the Advanced Sections of the Department in the First and Second Years, where such are provided.

(N.B.—The numbers which stand after the Academic years refer to the corresponding numbers of the Courses given on the pages indicated.)

1. Classical Literature and History.

Third Year Honours—Greek, 5, 6, (pp. 81–82).
Latin, 5, 6, (pp. 85–86).
Fourth Year Honours—Greek, 5, 7, (pp. 81–82).
Latin, 5, 7, (pp. 85–86).

2. English Language and Literature.

Third Year Honours—5, 6, (p. 92).
Fourth Year Honours—7, 8, 9, (p. 93); or 10, 11, 12, 13, (pp. 93–94).

3. Modern Languages.

Third Year Honours—French, 7 or 8; 9, (p. 97).
German, 6 or 7; 8, (p. 99).
Fourth Year Honours—French, 7 or 8; 9, (p. 97).
German, 6 or 7; 8, (p. 99).

4. Semitic Languages.

Third Year Honours—4*a* and 4*b*, (pp. 100–101).
Fourth Year Honours—5*a* and 5*b*, (p. 101).

5. Mental and Moral Philosophy.

Third Year Honours—6, 7, 8, 9, (pp. 104–105).
Fourth Year Honours—10, 11,12, (pp. 105–106).

6. History and Economics.

(A). Third Year Honours—History, 2, 5, 7. (pp. 107–108.
Economics and Political Science, 1, 6, (pp. 109 and 111).
Fourth Year Honours—History, 5, 7, 8, (p. 107–108).
Economics and Political Science, 2, 3, and 7 or 8, (pp. 109–111).
(B). Third Year Honours—Economics and Political Science, 1, 4, 5, 6, (pp. 109-111).
History, 2, (p. 107).
Fourth Year Honours.—Economics and Political Science, 2, 3, 4, 5, 7, 8, (pp. 109–111).
History, 5, 7, (pp. 107–108).

7. Mathematics and Natural Philosophy.

Third Year Honours—Mathematics, 7, 8, 9, 10, (p. 114).
Physics, 5, (p. 117).
Fourth Year Honours—Mathematics, 11, 12, 13, 14, 15, (pp. 114-115).
Physics, 5, 6, (p. 117).

8. Chemistry.

Third Year Honours—2 3, 4, (p. 118).
Fourth Year Honours—5, 6, 7, 8; or 7, 8, 9, (p. 119).

9. Geology and Mineralogy.

Third Year Honours—Mineralogy, 1, 3, (p. 120).
Geology, 1, (p. 120).
Fourth Year Honours—Mineralogy, 2, (p. 120).
Geology, 2, 3A, 3B, 4, 5, 6, 7, (pp. 121-123).

10. Biology.

Third Year Honours— { Botany, 5, (p. 125). Zoology, 4, (p. 127).

Fourth Year Honours— { Botany, 6, (p. 125). Zoology, 5, (p. 128).

Students proceeding to Honour Biology in the Third and Fourth Years will take Chemistry and Biology in the Second Year, one half course of Organic Chemistry in the Third Year, and one half course of Geology in the Fourth Year.

3. Ordinary Course for the Degree of B.Sc. (Arts.)

The B.Sc. course in Arts has been specially arranged to give the student a thorough training in Science, combined with a good knowledge of English, French, and German. A wide range of sciences may be studied, and the course differs from those offered in the Faculty of Applied Science in the substitution of modern languages for the more purely technical work of that Faculty.

A high standard of attainment will in all cases be exacted, and it is expected that in the Final Year the course will include instruction in the methods of modern research.

First Year.

English, 1A, 1B, and History, 1.
French, 1, 2.
German, 2.
Mathematics, 1.
Physics, 2.

Second Year.

English, 2.
French, 3, 4.
German, 3.
Chemistry, 1—Laboratory work in addition.
Mathematics, 3, *or* Elementary Biology, 1.

(*a*) Upon entering the Second Year, the student must decide upon the general character of the course which he will follow in the Third and Fourth Years. If his course in these Years is to consist chiefly of Mathematics and Physics, he must choose Mathematics; if it is to be chiefly Biological or Geological, he must take Biology; while if he intends to select Chemistry, he must take Mathematics if he intends to devote

Macdonald Physics Building.

special attention to Physical Chemistry, but Biology if he intends to make special study of other branches of this science.

(*b*) A candidate for the degree of B.Sc. must obtain at least Second Class standing both in French and German at the Intermediate Examination, and, upon entering the Third Year, must, in order to proceed with his course, be able to read with ease scientific papers in both of these languages.

(*c*) The student shall, in the Third Year, take a full course in three of the following sciences, viz.: — Mathematics, Physics, Chemistry, Zoology, Botany, Geology. He shall take, in addition, a portion of the B. A. Honour Course in one of them, as well as a course in English Composition.

(*d*) In the Fourth Year the student shall devote his time chiefly to advanced work in one of the three sciences which he has already studied in the Third Year. The course which he is to follow will be drawn up by the Professors of the science which he selects and must be approved by the B. Sc. Advisory Committee. He shall take, in addition, a Course in English Composition.

V. EXAMINATIONS.

1. There are two examinations in each year, viz., at Christmas and at the end of the Session. Successful students are arranged in three classes at the Sessional examinations.

Christmas Examinations will be held in all the subjects of the First and Second Years, and are obligatory on all Undergraduates, and also on all Partial Students of the First Year, unless they have been specially exempted. Partial Students of the First Year, who fail in the Christmas Examination, will be requested to withdraw from the class. Twenty-five per cent. of the marks given for the sessional work in each subject will be assigned for the results of the Christmas Examinations. Students prevented by illness from attending the Christmas examinations will, on presenting a medical certificate, be given sessional standing on the results of the April examinations. Candidates who fail in courses of the First and Second Years, terminating at Christmas, will be required to pass, at the April Examinations, on an extra paper in the subject in which they have failed.

Christmas Examinations in the Third or Fourth Years may be held at the option of the Professors. When held, the

same value will be assigned to them as in the case of the First and Second Years.

2. An undergraduate who fails in one subject at the Sessional Examinations of the First or of the Second Year, will not be allowed to proceed with his Year unless he passes a Supplemental Examination therein at the beginning of the Session, or takes the Summer Course, if there be one, in the subject, and passes the corresponding examination.

3. Failure in two or more subjects at the Sessional Examinations of the First or of the Second Year, or in one subject at the Third Year Sessional Examinations, involves the loss of the Session. The Faculty may permit the student to recover his standing by passing a Supplemental Examination at the beginning of the following Session. If he fail in any subject at this examination he will be required to repeat the year.

A Summer Course, on the same conditions as above, may be accepted instead of a Supplemental Examination.

4. Examinations Supplemental to the Sessional Examinations will be held in September, simultaneously with the Matriculation Examinations. The time for the Supplemental Examination will be fixed by the Faculty; the examination will not be granted at any other time, except by special permission of the Faculty, and on payment of a fee of $5.

5. A list of those to whom the Faculty has granted Supplemental Examinations in the following September will be published after the Sessional Examination.

Examinations for the Degree of B.A.

After passing the Matriculation Examination at entrance, candidates for the Degree of Bachelor of Arts must pass each of the four Sessional Examinations, including the Intermediate Examination at the end of the Second Year. Under the provisions of the new curriculum, the Third and Fourth Year Sessional Examinations constitute the Final.

1. Matriculation Examination.

1. The subjects are stated on p. 13.

2. Intermediate Examination.

2. The subjects are those prescribed for the Second Year, (see p. 63.)

3. Final Examination.

The qualifying subjects for the B.A. Degree will, under the New Curriculum, consist of the six subjects taken up in course in the Third and Fourth Years (pp. 63–64).

VI. REGULATIONS FOR COURSES IN ARTS LEADING INTO THE PROFESSIONAL FACULTIES.

Arts and Applied Science.

1. Any student intending to claim the privileges offered below, is required, at the beginning of the session, to present to the Dean of the Faculty of Arts a certificate of registration in the Professional Faculty, and to produce, at the end of the session, certificates of attendance and examination in the professional classes specified.

2. Undergraduates beginning the Third Year in Arts, who have taken all the Ordinary Mathematics of the first two years, and the Chemistry of the Second Year, and who wish to pursue their professional studies in the Faculty of Applied Science so as to obtain the Degree of B.A. and B.Sc. (App. Sc.) within the following four years, will be exempted by the Faculty of Applied Science from the Mathematics of the First Year in Applied Science and from Chemistry of the Second Year.

3. They must, unless by special permission of the Faculty of Arts, distribute the course of the Third and Fourth Years in Arts over three years, in accordance with the following schedule of studies:—

I. *In the Third Year*:—
- (*a*) Physics of Third Year.
- (*b*) Two of the courses which are not placed under the heading "Science" in the Arts curriculum. The time tables of the two Faculties allow two of the following subjects to be chosen:—English, History, Political Science.
- (*c*) Either one or two hours weekly in English Composition.*

II. *In the Fourth Year*:—
- (*a*) Physics of Fourth Year.
- (*b*) One hour weekly in English Composition, if only one has been taken in the Third Year.
- (*c*) The Mathematics of the Second Year Applied Science (6 hours weekly as 1½ courses).

*NOTE.—Students are recommended to distribute their English work over two years.

III. *In the Fifth Year*:—

The Mathematics of the Third Year Applied Science (2 hours weekly as a half course), or another course in the Arts curriculum.

4. Students who, having obtained permission of the Faculty, desire to complete the course for the B.A. Degree in four years, are required to take a full course in one subject in the Arts curriculum in addition to the courses prescribed in 3, II, above.

Arts (B.A. Course) and Medicine.

1. Undergraduates beginning the Third Year, who have taken the Chemistry and Biology of the Second Year, and who wish to pursue their professional studies in the Faculty of Medicine so as to obtain the Degrees of B.A. and M.D. within the following four years, will be exempted by the Faculty of Medicine from the subjects of Chemistry and Physics, and Biology in the First Year of the Faculty of Medicine. In the Second Year (Arts) they are permitted to take the continuation course in Animal Biology, on the same conditions as students taking the six years' course leading to the degrees of B. Sc. and M.D.

2. They may complete the Arts curriculum by taking the following courses:—

I. *In the Third Year*:—

(*a*) Anatomy and Practical Anatomy, Histology and Physiology, of First Year Medicine.

(*b*) Two of the courses which are not placed under the heading "Science" in the Arts curriculum. The time tables of the two Faculties allow the following to be chosen:—

(1) French or Moral Philosophy or Economics.

(2) Political Science.

(*c*) Either one or two hours weekly in English Composition.*

II. *In the Fourth Year*:—

(*a*) Anatomy and Practical Anatomy, Histology, Physiology, Chemistry, of Second Year Medicine.

(*b*) One hour weekly in English Composition, if only one has been taken in the Third Year.*

* NOTE.—Students are recommended to distribute their English work over two years.

3. The Faculty strongly recommends intending students of Medicine who do not take the combined six years' course to spend a preliminary year in the study of the non-professional subjects, *i.e.*, Biology, Chemistry, and Physics, before entering on the curriculum in the Faculty of Medicine.

Arts (B.Sc. Course) and Medicine.

1. Students who wish to take a combined course in the Faculties of Arts and Medicine with a view to obtaining the Degrees of B.Sc. (Arts) and M.D. within six years, must take Latin under head 6 of the Matriculation requirements for the B.Sc. course, see p. 12.

2. They must take the Ordinary B.Sc. course with the following modifications:—

Second Year Students shall take Elementary Biology. This course shall consist of either (1) the course in Elementary Biology required of First Year Students in Medicine (*i.e.*, 8 weeks Zoology together with 4 weeks Botany), together with a further course after Christmas (during the spring term of the Faculty of Arts) in Animal Biology; or (2) the full ordinary course in Elementary Biology of the Faculty of Arts, consisting of 12 weeks Zoology (up to Christmas) followed by 12 weeks Botany.

Third Year Students taking the Double Course shall be required to offer one of the following:—

I. Zoology.—(*a*) The full Ordinary Continuation Course of the Faculty of Arts, and in addition (*b*) half the Honours Course, the latter to be taken during the first half of the session.

II. Physics.—(*a*) The Full Ordinary Course of the Faculty of Arts, under which head students may take either the course in Sound, Light and Heat (Physics, 2) or that on Electricity and Magnetism (Physics, 3), or a combined course consisting of portions of these, and in addition (*b*) advanced work constituting half an Honours Course, the latter to be taken during the first half of the session.

III. Chemistry.—(*a*) A half-course in Physical Chemistry, during the first half of the session (from Chemistry, 7, 8); (*b*) a half-course in Organic Chemistry, during the second half of the session (Chemistry, 3, 6); (*c*) advanced work constitut-

ing half an Honours Course, the last to be taken during the first half of the session.

IV. Botany.—(*a*) The full Ordinary Primary Course of the Faculty of Arts (Botany, 2); (*b*) *either* half the Honours Course prescribed for Fourth Year Students in the Faculty of Arts (Botany, 6); *or* half an Honours Course in Chemistry, Physics or Zoology. The work under (*b*) is in any case to be taken during the first half of the session.

Fourth Year.—Wednesday afternoon and Saturday morning of each week shall be devoted either (1) to Laboratory Work in connection with still more advanced study in the subjects selected during the Third Year; *or* (2) to work in another branch of Science, provided the student is sufficiently well grounded to enable him to do the special work which may be assigned to him.

Arts and Law.

Students intending to go forward to the Faculty of Law are recommended to include in their Third and Fourth Years Arts, such subjects as Constitutional Law and History, Economics, Political Science, and Roman Law.

Literate in Arts.

A certificate of "Literate in Arts" will be given along with the professional degree in Medicine or Applied Science, to those who have completed two years' study in the Faculty of Arts, and have passed the prescribed examinations.

Students of the University Attending Affiliated Theological Colleges.

1. These students are subject to the regulations of the Faculty of Arts in the same manner as other students.

2. The Faculty will make formal reports to the governing body of the Theological College which such students may attend as to:—(*a*) their conduct and attendance on the classes of the Faculty; and (*b*) their standing in the several examinations; such reports to be furnished after the Examinations, if called for.

3. Students of affiliated Theological Colleges who are pursuing a double course in Arts and Divinity (six years at least) will take in the Third and Fourth Years the courses which constitute the ordinary curriculum in Arts, less a half course in each of these Years, or a whole course in either.

VII. MEDALS, PRIZES, CLASSING, AND CERTIFICATES.

1. **Gold Medals** will be awarded in the B.A. Honour Examinations to students who take the highest honours of the First Rank in the subjects stated below, and who shall have passed creditably the Ordinary Examinations for the Degree of B.A., provided they have been recommended therefor to the Corporation by the Faculty on the report of the Examiners:—

The Henry Chapman Gold Medal for Classical Languages and Literature.

The Prince of Wales Gold Medal for Mental and Moral Philosophy.

The Anne Molson Gold Medal for Mathematics and Natural Philosophy.

The Shakspere Gold Medal for the English Language and Literature.

The Logan Gold Medal for Geology, Mineralogy and Palæontology.

The Major Hiram Mills Gold Medal for Biology.

The Governor-General's Gold Medal for Modern Languages and Literature.

The regulations for the Governor-General's Gold Medal are as follows:—

(1) The subjects for competition shall be the French and German languages and literatures.

(2) The course of study shall extend over two years, viz., the Third and Fourth Years.

(3) The successful Candidate must be capable of speaking and writing both languages correctly.

(4) There shall be examinations in the subjects of the course in both the Third and Fourth Years, at which Honours may be awarded to deserving Candidates.

(5) The general conditions of competition and the privileges as regards exemptions shall be the same as for the other Gold Medals in the Faculty of Arts.

(6) Students from other Faculties shall be allowed to compete, provided they pass the examinations of the Third and Fourth Years in the above subjects.

(7) Candidates desiring to enter the Third Year of the Course, who have not obtained First-Class Standing at the Intermediate or Sessional Examinations of the Second Year in Arts, are required to pass an examination in the work of the first two years of the Course in Modern Languages, if called on to do so by the Professors.

(8) The subjects of examination shall be those of the Honour Course in Modern Languages.

In addition to the above, certain Medals are offered annually by the Alliance Française, at the discretion of the Department of Modern Languages.

If there be no candidate for any Medal, or if none of the candidates fulfil the required conditions, the Medal will be withheld, and the proceeds of its endowment for the year may be devoted to prizes in the subject for which it was intended. For details, see announcement of the several subjects below.

2. **Special Certificates** will be given to those candidates for B.A. who have been placed in the First Class at the ordinary B.A. Examination; have obtained three-fourths of the maximum marks in the aggregate of the courses proper to the Third and Fourth Years, are in the First Class in not less than half of these courses, and have no Third Class. At this examination, no candidate who has taken exemptions (see pp. 12–14) can be placed in the First Class unless he has obtained First Class in the examination in four of the subjects offered (each corresponding to a full course of lectures), and has no Third Class.

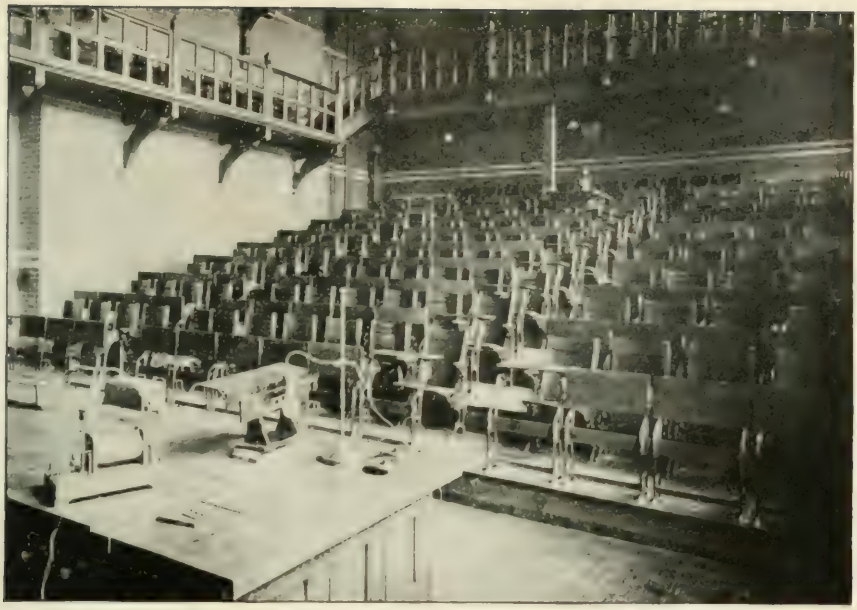
3. **Certificates** of High General Standing will be granted to those Undergraduates of the first two years who have obtained three-fourths of the maximum marks in the aggregate of the studies proper to their year, are placed in the First Class in not less than half the subjects, and have not more than one Third Class.

4. **Prizes or Certificates** will be given to those Undergraduates who have distinguished themselves in the studies of a particular class, and have attended all the other classes proper to their year.

5. **Graduates** who attend lectures in any subject, and pass the corresponding examinations therein, may obtain certificates of their standing, whether the course in question be Ordinary, Advanced or Honour.

6. **The Neil Stewart Prize**—An annual prize of $15, is open to all Undergraduates and Graduates of this University, and also to Graduates of any other University, who are students of Theology in some College affiliated to this University. The rules which govern the award of this prize are as follows:—

(1) The Candidate must pass, in the First Class, a thorough examination upon the following subjects: Hebrew Grammar; reading and translation at sight from the Pentateuch, and from such poetic portions of the Scriptures as may be determined.



Macdonald Physics Building.—A Lecture Theatre.

Macdonald Physics Building.—An Elementary Electrical Laboratory.

(2) There will be two Examinations of three hours each—one in Grammar and the other in Translation and Analysis.

(Course for the present year: Hebrew Grammar (Gesenius Translation and Analysis of Exodus: Isaiah XL. to the end of the book.)

(3) In case competitors should fail to attain the above standard, the prize will be withheld, and a prize of $30 will be offered in the following year for the same.

This Prize, founded by the late Rev. C. C. Stewart, M.A., and terminated by his death, was re-established by the liberality of the late Neil Stewart, Esq., of Yankleek Hill.

7. Early English Text Society's Prize.—This prize, the annual gift of the Early English Text Society, will be awarded for proficiency in the subjects of the language group in the English Honour curriculum of the Third and Fourth Years.

8. New Shakspere Society's Prize.—This prize, the annual gift of the New Shakspere Society, open to Graduates and Undergraduates, will be awarded for a critical knowledge of the following plays of Shakspere:—Hamlet, Macbeth, Othello, King Lear.

9. Charles G. Coster Memorial Prize.—This prize, intended as a tribute to the memory of the late Rev. Chas. G. Coster, M.A., Ph.D., Principal of the Grammar School, St. John, N.B., is offered by Colin H. Livingstone, B.A., to Undergraduates (men or women) from the Maritime Provinces (Nova Scotia, New Brunswick and Prince Edward Island). In April, 1905, it will be awarded to that Undergraduate of the First, Second or Third Year, from the above Provinces, who, in the opinion of the Faculty, has passed the most satisfactory Sessional Examinations, as stipulated by the donor.

10. Annie McIntosh Prize.—The income of the sum of $125, subscribed by the pupils and friends of the late Miss Annie M. McIntosh, will be offered as a prize to students of the Royal Victoria College in such subject, or for such work, as the Faculty may determine.

11. Science Scholarships Granted by Her Majesty's Commissioners for the Exhibition of 1851.—These scholarships, of the value of £150 a year, are tenable for two or, in rare instances, three years. They are limited, according to the Report of the Commissioners, "to those branches of Science (such as Physics, Mechanics and Chemistry) the extension of which is specially important for our national industries." Their object is not to facilitate ordinary collegiate studies, but "to enable

students to continue the prosecution of science with the view of aiding in its advance or in its application to the industries of the country."

Seven nominations to these scholarships have already been placed by the Commissioners at the disposal of McGill University (in 1891, 1893, 1895, 1897, 1899, 1901 and 1903). A scholarship was awarded on each occasion.

When nominations are offered, they are open to students of not less than three years standing in the Faculty of Arts or of Applied Science, and are tenable at any University or at any other Institution approved by the Commissioners.

12. The names of those who have taken Honours, Certificates or Prizes will be published in order of merit, with mention, in the case of students of the First and Second Years, of the schools in which their preliminary education has been received.

VIII. SUMMER CLASSES.

During the months of May and June, a series of SUMMER CLASSES will be conducted, intended mainly, in the first instance, to meet the requirements of students in the first two years of their course. The subjects offered are English, Latin, Greek, Logic, Mathematics, Physics, Chemistry, French, German and Elementary Biology. A fee of eight dollars will be exigible for any one class, and of four dollars for each additional class.

IX. COURSES OF LECTURES.

DEPARTMENT OF CLASSICS.

PROFESSORS:—W. PETERSON, M.A., LL.D.
JOHN MACNAUGHTON, M.A.
ASSOCIATE PROFESSOR:—A. J. EATON, M.A., PH.D.
ASSISTANT PROFESSOR:—S. B. SLACK, M.A.
LECTURER:—LEMUEL ROBERTSON, B.A.
TUTOR (Royal Victoria College):—ELIZABETH A. HAMMOND, B.A.

In this department, the work of the first two years is divided mainly between exercises in Grammar and Composition and the reading of selected authors. The attention of the student is at the same time directed to the collateral subjects of History, Literature, Antiquities, and Geography, in connection with which various text-books are recommended, as specified below.

In the Third and Fourth Years (as also in the Honour Courses) the instruction takes more of the lecture form, and an attempt is made to give a connected view of the leading branches of ancient literature, and the most important phases of ancient life and thought.

Students may be examined on the whole of the work prescribed for each class, even though it may not have been overtaken in lecture.

Subjects are suggested for Summer Readings in the various branches of class work. Students are strongly recommended to undertake these subjects during their long vacation, and credit will be given for them at an examination held in the first week in October.

Students are also recommended to devote some part of the vacation to the subjects set down under the head of History and Literature, which will form part of the Sessional Examination.

Greek.

Ordinary. First Year.

1. In this class, besides a review of grammatical principles (Allen's Elementary Grammar), portions of some Greek authors—*e.g.*, Xenophon, Homer, Herodotus, Lucian, and Euripides—are read and explained.

For 1904-05, the work will be Arrian's Anabasis (Selections, Macmillan); Homer, Iliad, XVIII (Platt, Blackie's Illustrated Series); Euripides, Hecuba (Upcott, Bell's Ill. Classics). For *Composition*, the manual used will be North & Hillard's Greek Prose Composition (Rivingtons); for *Translation at Sight*, written and oral, Greek Unseens in Prose and Verse, Intermediate Section (Blackie and Son).

History.—From B.C. 560 to 479, Cox's "Greeks and Persians" (Longmans' Epoch Series).

Four hours a week.

Second Year.

2. The work of the Second Year will be selected mainly from the Greek Dramatists, and from Thucydides, Plato or Demosthenes. Students are expected to be provided with Allen's Elementary Greek Grammar.

Subjects for 1904-05:—

Summer Readings.—Plato's Apology of Socrates (Adam). Students are also recommended to work through some portion of Burnet's Greek Rudiments (Longmans).

Sessional Lectures.—Thucydides, VII (Marchant, Macmillan), in part: Homer, Odyssey VI (Merry, Clarendon Press); Sophocles, Ajax (Jebb, Rivingtons). The practice of *Composition and Translation at Sight* will be continued as before: North & Hillard's Greek Prose Composition (Rivingtons), and Unseens in Prose and Verse, Senior Section (Sharwood Smith, Blackie and Son).

History.—The Athenian Supremacy; Bury's History of Greece.

Literature.—Fowler's History of Ancient Greek Literature, pp. 1–57 and 179–246.

Four hours a week.

The following books are recommended for reference during the first two years of the course:—Jebb's Introduction to Homer (Maclehose); Fowler's History of Greek Literature; Gow's Companion to School Classics (in part); Bury's History of Greece (Macmillan); Mahaffy's Primer of Greek Antiquities; and Tozer's Primer of Classical Geography (Macmillan); Allen's Elementary Greek Grammar (Clarendon Press); or Burnet's Greek Rudiments.

Students should provide themselves also with Kiepert's Atlas Antiquus.

Third Year. 3. Under the provisions of the new curriculum Greek is one of the subjects which may be offered as one of the six courses during the Third and Fourth Years together. The increased time which is thus given to it makes it possible to add to the reading of selected authors and the practice of Composition and Translation at Sight short courses of lectures on subjects of general interest in the departments of History, Philosophy, Literature, Art and Antiquities. One-fourth of the whole time of the Class (*i.e.*, one hour a week) is devoted to such lecture courses.

For the Session 1904-05, the course will be as follows:—

a. Summer Readings.—Sophocles, Oedipus Tyrannus (Jebb, Pitt Press).

b. History, Literature, Art and Antiquities.—Courses will be delivered on two of the following three:—

(1) Greek Philosophy—12 Lectures.

(2) Greek History from the accession of Alexander—12 Lectures.

(3) Early Greece—12 Lectures.

These lectures will be illustrated, where possible, by lantern slides or photographs, while many of the best works on classical antiquities will also be accessible to the student in the College Library.

c. AUTHORS.—Aeschines in Ctesiphontem (Richardson, Ginn & Co.); Aristophanes, Clouds (Merry, Clarendon Press); Euripides, Hercules Furens (Grey and Hutchinson, Pitt Press).

d. For practice in *Composition*, Mackie's Parallel Passages for Translation into Greek and English (Macmillan); for *Translation at Sight*, Tod and Longworth, Passages for Unseen Translation (Longmans).

Four hours a week.

4. Subjects for 1904-5. **Fourth Year.**

SUMMER READINGS.—Merriam's "The Phaeacians of Homer (Harper's), containing Odyssey VI, VII, VIII and XIII, 1-184.

The remainder of the course will be the same as for the Third Year.

A certain amount of reading in some of the following books will be found helpful:

Gow's Companion to School Classics (Macmillan); Bury's History of Greece (Macmillan); Jebb's Growth and Influence of Classical Greek Poetry (Macmillan); Campbell's Guide to Greek Tragedy (Percival); Abbott's Pericles (Putnam); Haigh's The Attic Theatre (Clarendon Press); Cornish's Concise Dictionary of Greek and Roman Antiquities (Murray); Fowler's History of Greek Literature; Kiepert's Manual of Ancient Geography (Macmillan); Greenidge's Constitutional History; Giles' Short Manual of Philology (Macmillan).

Students taking Comparative Philology as a half course in either the Third or Fourth Year may in that year omit from the prescribed courses in Greek, or Latin, or Greek and Latin together, one author and two of the short courses under the head of History, Literature, Art and Antiquities.

5. The work of the Honours Classes in Greek has been so arranged as to admit of separate courses of lectures being given, with illustrative readings, along certain main lines of literary study, in addition to supplementary work as provided for below. In 1904-05 the Lecture courses will be as under, the books **Honours. Third and Fourth Years.**

selected for class reading being specified under each separate head:—

A. Lyric and Alexandrine Poetry: Pindar, Isthmians (Bury, Macmillan); Selections from Callimachus (Wilamowitz).

B. Drama: Aeschylus, Choephoroi and Eumenides (Sidgwick, Clarendon Press).

C. History: Thucydides II (Marchant, Macmillan).

Three hours a week.

Translation at Sight.—Fox & Bromley's Models and Exercises (Clarendon Press).

Prose Composition.—Mackie's Parallel Passages (Macmillan), and from dictation.

Seminary Work.—Essays and Lectures on History, Literature, Comparative Philology and Ancient Philosophy.

Third Year. 6. *Private Reading.*—Plato, Purves, Selections, pp. 131-195 (Clarendon Press); Sophocles, Oedipus Rex (Jebb, Cambridge University Press).

In *History* the examination will be directed to testing a general knowledge of the course of Greek History to the death of Alexander, and a more minute knowledge of the development of the Athenian Constitution and the period of Athenian Supremacy. In *Literature,* a general knowledge will be expected of the course of Greek literature and a more minute knowledge of the lives and writings of the authors prescribed.

Fourth Year. 7. *Private Reading.*—Sophocles, Oedipus Tyrannus (Jebb, Cambridge Press); Lysias in Eratosthenem; Aristophanes, Birds (Merry, Clarendon Press); Selections from Menander & Philemon in Pickard—Cambridge: Greek Comic Fragments (Clarendon Press); Aristotle, Ethics, 1, 11, and X (Bywater, Oxford); Theocritus, I, II, IV, XI, XV (Cholmeley, Bell & Sons).

Students are recommended to supplement the Lecture-Courses by a certain amount of reading in some of the following books:

History, Literature and Antiquities.—Bury, Symonds, Fowler; Jebb's Growth and Influence of Classical Greek Poetry: Leaf's Companion to the Iliad; Butcher's Aspects of the Greek Genius; Mahaffy's Social Life in Greece; Jebb's Attic Orators.

Grammar and Philology.—Goodwin's Greek Moods and Tenses, and Giles's Short Manual of Philology (Macmillan); Monro's Homeric Grammar (Clarendon Press).

British School of Classical Studies in Athens.

This University is a contributor to the support of this School, which affords facilities for archæological and classical investigation, and study in Greece. Graduates in Arts of McGill University are accordingly entitled to special privileges and advantages as regards tuition in the School.

Latin.

Ordinary. First Year.

1. In this class, besides a general review of grammatical principles (New Latin Grammar, Allen and Greenough), portions of some Latin author,—such as Ovid, Tibullus, Livy, Sallust, Virgil, Horace or Cicero—are read and explained.

For 1904-5, the subjects will be Cicero, De Senectute (Warman, Bell & Sons); Ovid, Elegiac Selections (F. C. Smith, Bell & Sons); Virgil, Aeneid VI (Phillipson, Bell & Sons). For practice in *Composition*, both written and oral, the text-book in use during the first year will be North & Hillard's Latin Prose Composition (Rivingtons); and for *Translation at Sight*, Alford's Latin Passages for Sight Translation (Macmillan). *History*.—Carthaginian Wars, B.C.,263-146; Shuckburgh's History of Rome, or "Rome and Carthage" (Longmans' Epoch Series). For advanced section only, Tacitus, Agricola, (Pearce, Bell & Sons).

Four hours a week.

Second Year.

2. For 1904-5, the subjects will be:—

Summer Readings.—Cicero, In Catilinam I and II (Herring, Bell & Sons); or Cicero De Senectute (Warman, Bell & Sons).

Sessional Lectures.—Cicero, Pro Lege Manilia, and Pro Archia (King, Clarendon Press); Horace, Wickham's Selected Odes (Clarendon Press); Virgil, Aeneid IV (Warman, Bell & Sons.). *Composition and Translation at Sight*, Bradley's Arnold; and Alford's Latin Passages for Sight Translation (Macmillan).

History.—The Last Century of the Republic, B.C., 133-31; as in How and Leigh's Roman History.

Literature.—The subject matter of Quintilian X, chap. 1, §§ 37-131. For advanced section only, Horace, Epistles. Book I.

Four hours a week.

The following books are recommended for reference during the first two years of the course: How and Leigh's History of Rome (Longmans); Strachan-Davidson's Cicero;

Warde-Fowler's Caesar (Putnam); Wilkins' Primer of Roman Literature; Wilkins' Primer of Roman Antiquities; New Latin Grammar, Allen and Greenough.

Students should provide themselves also with Kiepert's Atlas Antiquus.

Third Year.

3. Under the provisions of the new curriculum, Latin is one of the subjects which may be offered as one of six courses, during the Third and Fourth Years together. The increased time which is thus given to it makes it possible to add to the reading of selected authors and the practice of Composition and Translation at Sight short courses of lectures on subjects of general interest in the departments of History, Philosophy, Literature, Art and Antiquities. One-fourth of the whole time of the Class (*i.e.*, one hour a week) is devoted to such lecture-courses.

For the Session of 1904-05, the course will be as follows:—

a. Summer Readings.—Virgil, Aeneid VII (Sidgwick, Pitt Press).

b. History, Literature and Antiquities.—Courses will be delivered on at least two of the following four subjects:—

(1) History of Classical Scholarship in the Fifteenth and Sixteenth Centuries—12 Lectures.
(2) The History of the Roman Empire—12 Lectures.
(3) Private Life of the Romans—12 Lectures.
(4) History of Roman Literature to the end of the Republic—12 Lectures.

These lectures will be illustrated, where possible, with lantern slides or photographs, while many of the best works on classical antiquities will also be accessible to the student in the College Library.

Authors.—Cicero, Pro Sestio (Holden, Macmillan); Horace, Epistles I and II (Wilkins, Macmillan); Plautus, Captivi (Lindsay, Macmillan).

d. For practice in *Composition*, Nixon's Parallel Extracts (Macmillan), and from dictation; and for *Translation at Sight*, Tod and Longworth, Passages for Unseen Translation (Longmans).

Four hours a week.

Fourth Year.

4. Subjects for 1904-05:—

Summer Readings.—Horace, De Arte Poetica (Wilkins, Macmillan).

The remainder of the course will be the same as for the Third Year.

NOTE.—The following books are recommended for reference: Gow's Companion to School Classics (Macmillan); Mackail's Latin Literature (Murray); How and Leigh's History of Rome (Longmans); Pelham's Outlines of Roman History (Percival); Capes' Early Roman Empire (Longmans' Epoch Series); Cornish's Concise Dictionary of Greek and Roman Antiquities (Murray); Kiepert's Manual of Ancient Geography (Macmillan); Bennett's Appendix to Latin Grammar; Giles, Short Manual of Philology (Macmillan).

Students taking Comparative Philology as a half course in either the Third or Fourth Year may in that year omit from the prescribed courses in Latin, or Greek, or Latin and Greek together, one author and two of the short courses under the head of History, Literature, Art and Antiquities.

Honours. Third and Fourth Years.

5. As in Greek, the work of the Honours Classes in Latin has been so arranged as to admit of separate courses of lectures being given, with illustrative readings, along certain main lines of literary study, in addition to supplementary work as provided for below. In 1904-05, the Lecture Courses will be on three of the following, the books selected for class reading being specified under each separate head:—

A. Epic Poetry: Virgil, Aeneid I-IV, and Lucan VI and VII.

B. Prose: Development of Latin Style (Gudeman's Prose Selections, Harper).

C. Roman Comedy: Plautus, Rudens (Sonnenschein), Trinummus (Gray); Terence, Phormio (Freeman and Sloman), Andria (Freeman and Sloman).

D. Oratory: Cicero, Verrine Orations.

Three hours a week.

Translation at Sight.—Fox & Bromley's Models and Exercises (Clarendon Press). *Prose Composition.*—Selected passages.

Seminary Work.—Essays and Lectures on History, Literature, Comparative Philology and Ancient Philosophy.

Third Year.

6. *Private Reading.*—Cicero, Selections from Letters (Tyrrell, Macmillan, pp. 1-83); Virgil, Aeneid VII (Sidgwick, Pitt Press); Pliny I and II (Westcott, Allyn and Bacon, pp. 1-36).

History.—A general knowledge of Roman History to the end of the first Century A.D., and a more minute knowledge of the period from B.C. 146 to the Death of Augustus.

Literature.—A general knowledge will be expected of the course of Roman Literature, and a more minute knowledge of the lives and writings of the authors prescribed.

Fourth Year.

7. *Private Readings.*—Lucretius V (Duff, Pitt Press); Livy II (Conway, Pitt Press); Cicero, Tusculan Disputations I, II, and Pro Cluentio (Peterson, Macmillan); Juvenal (Duff, Pitt Press); Quintilian, Book X (Peterson, Clarendon Press).

Students are recommended to supplement the Lecture-Courses by a certain amount of reading in some of the following books:

History, Literature and Antiquities.—How & Leigh's History of Rome (Longmans); Tyrrell's Latin Poetry; Students' Companion to Latin Authors (Middleton & Mills, Macmillan).

Grammar and Philology.—Lindsay's Short Historical Latin Grammar (Clarendon Press) and Giles' Short Manual of Philology (Macmillan); Lindsay's Textual Emendation (Macmillan).

British School of Classical Studies at Rome.

The University has become a contributor to the support of this School, which has been recently instituted, and the same advantages will be enjoyed by members of the University as are offered in connection with the School at Athens (p. 83). The publications of both Societies are available in the University Library.

Sanskrit.

LECTURER: ————————

The two courses in Sanskrit are primarily intended for students who have passed the Intermediate examination, but permission may in certain other cases be obtained to attend the elementary course.

1. A. For beginners, the work mainly consisting in the mastering of the elements of Sanskrit Grammar with such composition as tends to fix in the mind the knowledge thus acquired. Etymological references will be frequently made and comparisons suggested in order at once to familiarize the language and give it an educational value in spite of the elementary nature of the course. This course counts as a half-course

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qualifying for the degree, and it is especially recommended to students attending the half-course in Comparative Philology.

Two hours a week.

1. B. For those students who have already passed through Course A or its equivalent in Sanskrit preparation; one hour per week is devoted to Lectures on Indian Literature, commencing (1904-05) with the Post Vedic Period. Two hours are devoted to reading selections; one hour to grammar and composition bearing especially on the texts read. Course B counts as one full course to the Final; courses A and B together, one and one-half, the student taking up Course B not being debarred thereby from repeating a course in another department.

Four hours a week.

Books required: Perry, Sanskrit Primer: Whitney's Sanskrit Grammar; Lanman's Sanskrit Reader (Ginn & Co.). For reference: Sanskrit Literature, A. A. Macdonell (Heinemann).

Summer Readings.—A course of Summer Readings will be suggested according to individual needs. During the months of May and June the lecturer will be glad to give his personal supervision to students of Sanskrit and is prepared to give lectures if due notice is given.

Comparative Philology.

LECTURERS :— { A. JUDSON EATON, M.A., PH.D.
{ S. B. SLACK, M.A.

1. A.—INTRODUCTORY COURSE.—50 Lectures.

This course will deal with the following subjects: the history of the Science of Comparative Philology; the Indo-Germanic languages and their classification and relation to one another; the primitive home and culture of the so-called Aryan people; the nature of compounds in Indo-Germanic; recent theories about Ablaut and its relation to the Indo-Germanic system of accentuation; the importance of Ablaut in explaining apparent irregularities of declension and conjugation; external Sandhi in the Indo-Germanic languages; and the influence of Analogy and contamination in the formation of words. The lectures will then go on to discuss the various sounds of the primitive Indo-Germanic language, and the development of those sounds in the various languages of the Indo-Germanic family; the declension of the Noun and the conjugation of the Verb will be discussed from a historical standpoint, and, finally, some attempt

will be made to indicate to the student what is being done by modern investigators in the field of Historical Syntax.

1. B.—Comparative Grammar of Greek and Latin.—25 Lectures.

This course will deal more exclusively with the history and structure of these languages and their relation to the other members of the group.

It is primarily intended for Honour Students in the Classics, but is open also to such others as may be found to be qualified.

Certain exemptions in the Classical Courses (see pp. 84 and 85) are allowed to students taking the lectures in Comparative Philology, enabling them to make a full course by combining it with either Greek or Latin, or two full courses by combining it with both.

DEPARTMENT OF ENGLISH.

Professor:—Chas. E. Moyse, B.A., LL.D.
Associate Professor:—P. T. Lafleur, M.A.
Lecturer:—J. W. Cunliffe, D.Lit.
Tutor and Lecturer (Royal Victoria College):—
Susan E. Cameron, M.A.

Ordinary. First Year.

1. A. English Literature.—The course will present an outline of English Literature from the Anglo-Saxon Period to the Restoration, and will be illustrated by printed syllabuses and lantern slides. The general subject will be divided into three periods (Pre-Chaucerian, Italian, French), and approached for the most part through literary types. Students are recommended to use Morley's Charts of English Literature. Two hours a week.

1. B. English Composition.—A course of lectures, chiefly synthetical, on the principles of English composition, with special reference to the use of words and the construction of sentences and paragraphs. Regular essays are required of all students. Text-Books:—Nichol's Manual (or an equivalent). One hour a week.

1. C. History.—The Main Epochs of European History, being History I. (See p. 107.)

For affiliated colleges, in place of the above:—Halleck's History of English Literature (American Book Co.) pp. 1-212; with the following readings:—Chaucer, Prologue of the Canterbury Tales; Spenser, Faerie Queene, Book I; Milton, Comus;

European History (G. B. Adams, Macmillan). Regular practice and instruction in composition are strongly recommended.

Second Year.

2. A. LITERATURE.—English Prose from the Restoration to the French Revolution. Two hours a week before Christmas.

Nineteenth Century Literature. Two hours a week after Christmas.

Special readings will be prescribed in connection with each lecture course.

2. B. COMPOSITION.—Continuation of 1 B.

Fortnightly Essays will be required on subjects set in connection with the lectures and will be taken into account in determining the standing of students at the end of the session.

For affiliated colleges:—Halleck's History of English Literature, pp. 213-480; with the following readings:—The Spectator, Nos. 7, 9, 72, 112, 159, 173, 275, 281, 317, 488, 569, 590; Johnson's Lives of the Poets, Dryden and Pope; Goldsmith's Vicar of Wakefield; Coleridge's Ancient Mariner; Carlyle's Heroes and Hero Worship: The Hero as Poet.

Third and Fourth Years.

3. A. ENGLISH LITERATURE.—Shakspere—This course will begin with a review of the early history of the English drama, and of the conditions which led to its development in the time of Elizabeth. The advances made by the earlier Elizabethan dramatists will be noted, and Shakspere's methods illustrated by a comparative study of A Midsummer Night's Dream, Romeo and Juliet, Henry V, As You Like It, Hamlet, Macbeth, King Lear, and The Tempest; the relation of these plays to their sources will also be considered. Students are recommended to read as many of Shakspere's plays as they can, and to give special attention to those mentioned above.

3. B. A course on Poetry and the Drama. England from 1660 to 1789, with special and detailed reference to changes in literary ideals and expression during the period discussed. The lectures will include poets, from Dryden to Crabbe; dramatists, from the writers of Heroic plays to Sheridan. Students will be called upon to pay special attention to the following works: Dryden, Absalom and Achitophel; Pope, Selections from the Essay on Man, and The Rape of the Lock; Thomson, The Seasons (one book); Cowper, The Task (one book); Crabbe, The Borough (four divisions); Dryden, Essay

on Dramatic Poesy; Addison, Cato; Goldsmith, She Stoops to Conquer; Sheridan, The School for Scandal. Two hours a week.

3. C. English Language.—The course will consist mainly of the translation and examination of the English Language in its earliest and distinctive stages, and may be taken instead of any two courses in English Literature. From time to time the relation of English to other Teutonic languages will be illustrated. A few Early English texts will be studied with the view of elucidating the later history of English. There will be a series of illustrated lectures in which various details of literature and aspects of life in the period under investigation will be exhibited.

Text-Books:—Sweet, Anglo-Saxon Primer; Anglo-Saxon Reader (the whole). Morris, Specimens of Early English, Part II, Extt. I, II, VI, VII, IX. Four hours a week.

3. D. English Composition.—An advanced course on English Composition, including style, methods and principles of literary criticism treated from the historical point of view, and an introduction to the comparative study of literature in accordance with the most recent results of contemporary thought and research. In connection with this course students will be examined in a course of prescribed readings. Essays at stated periods are required of all.

Books of reference and authorities:—Saintsbury's History of Criticism; Lessing, Sainte-Beuve, Brunetière, Arnold, Ruskin, Worsfold. One hour a week.

4. A. English Literature.—A course on the Leading Poets of the Nineteenth Century. The chief aspects of the French Revolution will be considered, and Republican feeling in England illustrated chiefly from the works of Wordsworth, Coleridge and Southey. The indirect revolutionary poets Byron and Shelley will then be considered, and their typical poems, together with those of the poets already mentioned, critically examined. The remainder of the course will be given to Scott, Keats, Tennyson, Browning, Matthew Arnold and Swinburne. Two hours a week.

The following poems have been selected for private reading:—

Wordsworth:—The Scholars of the Village School of—; Two April Mornings; The Fountain; The Peak of Weather-

lam, in the Prelude—("One Summer evening (led by her) I found," Book I); Lucy Poems; "Earth has not anything—;" Hart-leap Well; Tables Turned; Lines written in early spring; To my Sister; Excursion—The Vision in the Skies, ("So was he lifted gently from the ground," Book II); The Child and the Shell, ("I have seen a curious Child," Book IV); Laodamia; "It is a beauteous evening"; "The world is too much with us"; "Scorn not the Sonnet"; "Milton, thou shouldst be living"; Daffodils; The Yarrow Poems. Coleridge:—Dejection; Ode to France; Lines to a Gentleman, composed on the Night after his Recitation of a Poem on the Growth of an Individual Mind; Love; Youth and Age; Fancy in Nubibus; Christabel; Hymn before sunrise in Vale of Chamouni. Scott:—Lady of the Lake; Wild Huntsman; Fire King. Byron:—A Distant View of Harrow on the Hill; Childish Recollections; Manfred; Childe Harold, Canto I. Keats:—Isabella; Ode to a Grecian Urn; Chapman's Homer. Shelley:—Ode to the West Wind; The Cloud; The Skylark; Alastor; Ozymandias; Adonais. Tennyson:—The Princess; In Memoriam. Browning:—Saul; Johannes Agricola; Pictor Ignotus; Fra Lippo Lippi; Andrea del Sarto; The Bishop orders his Tomb at Saint Praxed's Church; Pippa Passes, Introduction, I and IV.

4. B. A general course on the history of English Prose Fiction from Richardson to the middle of the nineteenth century, treating of the various forms successively given to English novels during the period, and the influences that stimulated or otherwise affected such productions. While students are expected to show particular knowledge of English masterpieces in this kind, frequent reference to cognate works by continental writers will also demand some familiarity with contemporary European literature. Portions of the following works will be selected for detailed study and discussion: Richardson, Clarissa Harlowe; Fielding, Amelia; Goldsmith, The Vicar of Wakefield; Godwin, Caleb Williams; Walpole, The Castle of Otranto; Thackeray, Henry Esmond. *Books of reference*:—Raleigh, The English Novel; Dunlop, History of Fiction; Tuckerman, Jeaffreson. Two hours a week.

4. C. English Composition.—The statement respecting 3 D (p. 90), indicates the method and character of this course, which is regarded as a continuation of the course in the Third Year.

Honours. Third Year.

Honour students of the Third Year will take courses 5 and 6 in addition to the ordinary English requirements of the Third Year in language *and* literature.

5. Chaucer, Spenser and Milton.—Chaucer will be considered with reference to the social life of his time, which will be illustrated from his works, chiefly from the Prologue to the Canterbury Tales. He will then be discussed with the view of bringing out not only his intrinsic merits, but his connection with French and Italian literature and his relation to his predecessors and successors in English poetry.

Students will read the following works for examination: Prologue to the Canterbury Tales: The Knightes Tale; The Parlement of Foules; The Hous of Fame.

Two hours a week up to Christmas.

After Christmas, Spenser and Milton will be studied, first in relation to the political and religious life of their times, and afterwards as to their poetic development and influence.

Students will read the following works for examination: Mother Hubbard's Tale; Colin Clout's Come Home Again; Epithalamium; Faerie Queene, Bk. 1; Milton's English Poems of the First Period (to 1637); Paradise Lost, Bks. I and II.

Two hours a week.

6. Prose writers before Dryden.—The main object of the course will be to discuss the chief literary influences visible in the Pre-Restoration writers of English Prose and to examine characteristics of style. The subject will be treated chronologically. As the course is largely interpretative and critical, facts of biography will be used only when they illustrate points of moment.

Students will read the following works for examination: More, Utopia; Sidney, An Apologie for Poetry (Cook); Lodge, Rosalynd (Collier's Shakespeare's Library); Bacon, New Atlantis; Earle, Microcosmographie (Arber); Milton, Areopagitica (Hales).

Two hours a week.

Honours. Fourth Year.

Honour Students of the Fourth Year will select Language *or* Literature.

Language.—The main subjects of study will be Anglo-Saxon, Middle English and Mœso-Gothic. Elementary courses may be given in Icelandic and Old Saxon if thought desirable.

7. Anglo-Saxon.—The whole of *Béowulf* will be read in class and illustrated by notes on origins, philology and textual emendations. *Text-Book*: Harrison and Sharp's *Béowulf* (Ginn). Students will read selected portions of other poems for examination. Anglo-Saxon prose will be studied mainly in the translation of Gregory's Pastoral Care and Ælfric's Homilies. Students will be guided in the examination of dialectal texts and referred to important articles in periodical literature dealing with that subject and also with the field of Anglo-Saxon generally.

Three hours a week.

8. Middle English.—The course is intended to give a knowledge of dialectical English and to illustrate the changes the language has undergone. The texts given in Morris's Specimens of Early English, Part I, and Morris and Skeat's Specimens of Early English, Part II, may be regarded as the chief material for study. A list of books of reference and of important monographs will be given at the commencement of the course.

Two hours a week.

9. Mœso-Gothic.—The course on Mœso-Gothic is intended to open the way to the comparative study of allied Teutonic languages. Particular attention will be given to the phonological relations of Mœso-Gothic and Anglo-Saxon. *Text-Books*: Wright, Primer of the Gothic language; Ulfilas (Heyne).

Literature.—The courses in Literature deal mainly with the post-Restoration period. Two of them are of a general character and two are limited to individual authors. The latter may be supplemented by courses on Wordsworth and Tennyson.

10. Modern Prose Writers.—After a short sketch of the earlier history of English prose, attention will be directed to the development of periodical literature and the rise of journalism. The influence of leading essayists upon their contemporaries and successors will be analyzed, with special reference to the works of Carlyle, Ruskin, Matthew Arnold and Robert Louis Stevenson. Some account will be given of modern newspaper organization and its relation to present-day literature.

Students will read the following works for examination: Carlyle, Heroes and Hero Worship; Ruskin, Crown of Wild

Olive: Arnold, Essays in Criticism, Second Series (Macmillan); Stevenson, Virginibus Puerisque.

Two hours a week.

11. Comparative Literature.—A course of lectures on the influence of English literature upon the continent of Europe, chiefly during the eighteenth and nineteenth centuries. The treatment discusses mainly the historical development of ideas, but examines also corresponding modifications regarding literary method and form.

Voltaire, Letters concerning the English Nation; Elton, The Augustan Age; Texte, Jean Jacques Rousseau and the Cosmopolitan Spirit in Literature (tr. Matthews); Brunetière, L'Evolution des Genres.

Two hours a week.

12. Shakspere.—The history of Shaksperean criticism, textual and æsthetic, will be traced from its beginnings in England and Germany to the present time. Students will be directed to make themselves acquainted by private reading with the most important problems and results of modern research.

Two hours a week before Christmas.

13. Browning.—This course will aim at explaining Browning's view of the poetic art, his characteristic methods, and his outlook on the life and thought of his time. Selected shorter poems will be studied in class, and detailed lists of these, arranged under subject-headings, will be supplied for private reading.

Two hours a week after Christmas.

DEPARTMENT OF MODERN LANGUAGES.

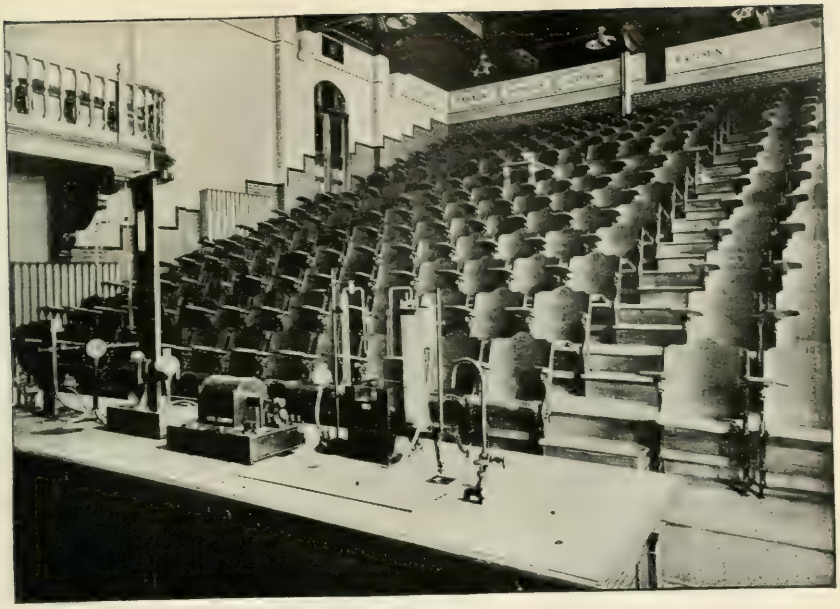
Professor:—Hermann Walter, M.A., Ph.D.

Lecturers: Leigh R. Gregor, B.A., Ph.D.; E. T. Lambert, B.A.; J. L. Morin, M.A.

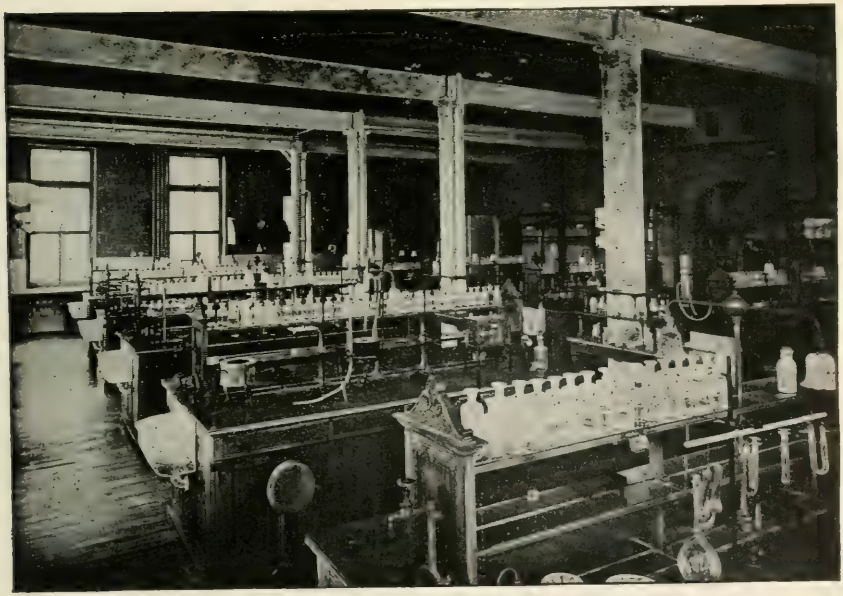
Lecturer and Tutor (Royal Victoria College):—
Mlle. Milhau, Lic. Univ. Fr.

A.—French.

Owing to the position which this University occupies in the midst of a very large French-speaking population, there is a permanent demand for courses of a practical, conversational character; for the same reason the Department profits by the co-operation of French church services, French family life,



Macdonald Chemistry Building.—A Lecture Theatre.



Macdonald Chemistry Building.—A Laboratory.

French newspapers, French theatres, French literary clubs, and public lecture courses in the French language.

In drawing up the following dual courses endeavours have been made to meet the special needs of the professional men of the Province of Quebec (every student being given the opportunity to learn to speak French), and also to provide for the maintenance of scientific methods. In Courses 1 and 3, the study of grammar and literature is carried on in accordance with the usual academic traditions, the French language being, however, largely used in class instruction. In Courses 2 and 4, the method of teaching is of a more practical character; the French language only is used, and the texts prescribed are made the subject of conversation, analysis, résumés, etc. In the Third and Fourth Years all lectures are given and all studies carried on in French.

Students will take as part of their Honour Course in Modern Languages that part of section 1. A, of the course on Comparative Philology (p. 87), which deals with the general principles of linguistic development.

Ordinary. First Year.

1. Borel, Grammaire Française (Holt and Co.); Augier, Le Gendre de M. Poirier (Heath and Co.); Super, Histoire de France (Holt).

2. Coppée et Maupassant, Tales (Holt); Lamartine, Scènes de la Révolution Française (Heath and Co.); Labiche, Le Voyage de M. Perrichon (American Book Co.); Sand, La Mare au Diable (Ginn and Co.); German and French Poems (Holt and Co.).

There will be regular written exercises. Great importance will be attached to correct pronunciation, which will be taught phonetically.

The examinations for the students of Affiliated Colleges will include the whole of courses 1 and 2. Equivalents for the oral work of Course 2 and the oral examination will be stated on application.

Four hours weekly, two for each course.

Second Year.

Summer Readings for students entering on their Second Year:—Molière, Femmes Savantes; Vigny, La canne de jonc (Heath and Co.).

Sessional Lectures.—

3. Borel, Grammaire Française (Holt and Co.); Corneille, Le Cid (Heath and Co.); V. Hugo, Notre-Dame de Paris (Ginn and Co.); Elementary Historical French Grammar.

4. Mansion, Esquisse de la Littérature Française (McDougall, London); Racine, Britannicus; Molière, L'Avare (Heath and Co.); V. Hugo, Scènes de Voyage (Holt and Co.); German and French Poems (Holt and Co.).

The examination for the students of Affiliated Colleges will include the whole of Courses 3 and 4. Equivalents for the oral work of Course 4 and the oral examination will be stated on application.

Four hours weekly, two for each course.

Third and Fourth Years.

These courses will consist mainly in the study of French Literature and Advanced Prose Composition.

Summer Readings for students entering on the Third or Fourth Year:—Molière, Misanthrope (Holt and Co.); Renan, Souvenirs d'Enfance et de Jeunesse (Heath and Co.).

Sessional Lectures:—

1904-1905

5. Literature up to the end of the XVIIth Century; Corneille, Polyeucte; Racine, Athalie, Bajazet; Molière, L'Avare; Boileau, L'Art Poétique (Pitt Press); La Bruyère, Selections; Madame de la Fayette, La Princesse de Clève.

Prose Composition:—Spiers, Graduated Course of Translation into French Prose (Simpkin, Marshall and Co., London).

1905-1906

6. Literature in the XVIIIth and XIXth Centuries; Lesage, Gil Blas (Heath and Co.); Marivaux, Le Jeu de l'Amour et du Hasard; J. J. Rousseau, Selections; Voltaire, Mérope; Victor Hugo, Hernani; Musset, Selections (Ginn and Co.); Balzac, Eugénie Grandet; Banville, Gringoire.

Prose Composition.—Spiers, Graduated Course of Translation into French Prose (Simpkin, Marshall and Co., London.)

N. B.—In order to be admitted to the above classes a student must understand French well enough to take lectures delivered in French.

Four hours weekly.

Honours. Third and Fourth Years.

The work of the Honours Classes in French is divided into three sections. The First includes the Historical study of the French language, the Second, the History of French Literature, the Third, French Composition and the Reading and Study of French Texts. The First and Second Sections are taken up in alternate years, the Third annually. Students of the Third and Fourth Years take lectures together. In order to obtain Honours, candidates must be able to speak French fluently.

History of Literature. 1904-1905.

7. Inasmuch as the Ordinary Course provides a comprehensive survey of French Literature, Honour Students will be required to make a special study of certain men, movements and periods.

Three hours weekly.

Philology. 1905-1906.

8. This course will deal with the Historical development of the French language from its origin to the present day. The Old French Period will receive special attention, and in this connection the oldest texts will be read. Provençal grammar will be referred to. Students will make use of Schwan's Altfranzösische Grammatik (revised by Behrens), Darmesteter's Cours de Grammaire Historique, Nyrop's Grammaire Historique and Bartsch, Chrestomathie.

Three hours weekly.

Texts and Composition.

9. Students will receive instruction in the art of composition. They will be required to write a number of French papers on literary subjects, in connection with which readings will be suggested.

N. B.—Before entering on their Third Year Course, Honour Students are expected to have read the following: Corneille, Le Cid, Horace, Cinna, Polyeucte; Racine,—Andromaque, Britannicus, Phèdre, Athalie; Molière,—Ecole des Femmes, Misanthrope, Tartuffe, Le Bourgeois Gentilhomme, Les Femmes Savantes; Boileau,—L'Art Poétique, except where these texts are part of the readings prescribed for the Ordinary Course.

B.—German.

The Ordinary Courses mainly keep practical ends in view. In the first two years special attention is given to Grammar, in the Third and Fourth to Literature. Texts are studied from the æsthetic and critical as well as from the historical and linguistic point of view. A considerable amount of translation is done in class, English-German exercises in the prescribed text-book on Grammar being supplemented by the translation into German of easy prose passages and the retranslation of texts. Importance is attached to correct and expressive reading aloud.

Ordinary. Beginners Course.

1. The Joynes-Meissner German Grammar (Heath and Co.); Joynes, German Reader (Heath and Co.); Stern, Geschichten von Rhein (American Book Co.); Riehl, Der Fluch der Schön-

heit; Schiller, Maria Stuart (Heath and Co.); Wildenbruch, Harold (Heath and Co.).

Tutorial classes conducted during May and June enable students to overtake work not completed by the close of the Winter Session.

Four hours weekly.

First Year. 2. The Joynes-Meissner German Grammar (Heath and Co.); Horning, German Composition; Wildenbruch, Der Letzte (Heath and Co.); Riehl, der Fluch der Schönheit; Schiller, Maria Stuart (Holt and Co.); German and French Poems (Holt and Co.).

Four hours weekly.

The examination for the students of Affiliated Colleges will, in addition to the above, include equivalents for the oral examination, and will be stated on application.

Second Year. Summer Readings for students entering on their Second Year:—Hauff, Lichtenstein (Heath & Co.).

3. Sessional Lectures. — The Joynes-Meissner German Grammar; Horning, German Composition; Schiller, Die Jungfrau von Orleans (Holt and Co.); Beresford-Webb, German Historical Reading Book (Holt and Co.); Schiller's Ballads (Heath and Co.); Gœthe, Gœtz von Berlichingen (Holt and Co.); Keller, Bilder aus der Deutschen Literatur (American Book Co.).

Four hours weekly.

The examination for the students of Affiliated Colleges will, in addition to the above, include equivalents for the oral examination to be stated on application.

Third and Fourth Years. Summer Readings for students entering on their Third or Fourth Year.—Freytag, Soll und Haben (Heath & Co.).

1904-1905. 4. Goethe, Egmont (Ginn & Co.); Schiller, Die Braut von Messina (Holt); Kleist, Prinz Friedrich von Homburg (Ginn & Co.); Sudermann, Der Katzensteg (Heath & Co.); Goethe, Poems (Holt).

Translation of prose passages from English into German. Four hours weekly in each year.

1905-1906. 5. Lessing, Nathan; Goethe, Iphigenie (Pitt Press); Lessing, Dramaturgie (Selections); Schiller, Wallenstein's Tod; Keller, Legenden (Holt and Co.); Translation of prose passages from English into German.

Four hours weekly.

Honours Third and Fourth Years.

The work of the Honour Classes in German is divided into three Sections. The First includes the Historical study of the German Language; the Second, the History of German Literature; the Third, German Composition and the Reading and Critical Study of Texts. The First and Second Sections are taken up in alternate years; the Third, annually. Students of the Third and Fourth Years take Lectures together. Language in German is taken up in the same Session as Literature in French, and *vice versa*. The German Language alone is used in class instruction.

In order to obtain Honours, candidates must be capable of speaking German fluently.

Philology. 1904-1905.

6. (*a*) A general outline of the development of the German Language from its origin to the present day, in the course of which the operation of the principal laws exemplified in the growth of the language will be traced.

(*b*) A special study of the Middle High German period, its language and literature, with selected texts.

The following books will be used:—Bachmann, Mittelhochdeutsches Lesebuch (Faesi and Beer, Zurich); F. Kaufmann, Deutsche Grammatik; Behaghel, Die Deutsche Sprache; Wright, Middle High German Primer (Clarendon Press).

Three hours weekly.

History of Literature. 1905-1906.

7. Inasmuch as the Ordinary Course provides a comprehensive survey of German Literature, Honour Students will be required to make a special study of certain men, movements and periods.

Three hours weekly.

Texts and Composition.

8. Students will receive instruction in the art of composition. They will be required to write a number of German papers on literary subjects in connection with which readings will be suggested.

N.B.—Before entering on their Third Year Course, Honour Students are expected to have read the following:—Lessing,—Minna von Barnhelm or Nathan der Weise; Schiller,—Wilhelm Tell, Maria Stuart, Jungfrau von Orleans, Wallenstein, Ballads; Goethe,—Goetz von Berlichingen, Egmont, Hermann und Dorothea, Poems, except where these texts are part of the readings prescribed for the Ordinary Course.

Italian.

LECTURER :—LEIGH R. GREGOR, B.A., PH.D.

The following course, given in alternate years, is intended for students who have passed the Intermediate Examination. Partial students who wish to join the class must give satisfactory evidence of their ability to keep up with the undergraduates.

1905-1906. Grandgent, Italian Grammar (Heath & Co.); Grandgent, Italian Composition (Heath & Co.); De Amicis, Selections from Il Cuore; Manzoni, Selections from I Promessi Sposi; selections from the Divina Commedia; Notes on some of the great names of Italian Literature.

DEPARTMENT OF SEMITIC LANGUAGES

PROFESSOR :—D. COUSSIRAT, B.A., B.D., D.D., OFFICIER DE L'INSTRUCTION PUBLIQUE.

The course comprises lectures on the above languages and their literature, their genius and peculiarities Comparative philology, affinity of roots, etc., also receive due attention, while the portions selected for translation will be illustrated and explained by reference to Oriental manners, customs, history, etc.

Ordinary. Second Year.

1. Hebrew grammar and translation. English rendered into Hebrew. Masoretic notes explained. The Hebrew text compared with the Septuagint and Vulgate Versions. Four hours a week.

   This course may also be taken as a course in either the Third or Fourth Years, by students who have not taken it in the Second Year.

Third Year.

2. Hebrew Syntax. Translation of difficult passages of the Old Testament. Notes on the Massora and the Talmud (Mishna and Gemara). Aramaic.

Fourth Year.

3. Translation continued. Characteristics of the Semitic Languages, particularly of Aramaic, Syriac, Samaritan, Rabbinic, Arabic, Assyrian. Semitic Inscriptions. Four hours a week for the combined courses.

Honours. Third and Fourth Years.

4*a*. HEBREW.—Genesis, Isaiah, 40-66. Ecclesiastes. *Literature.*—Books to be selected at the beginning of the session.

4*b*. ARAMAIC.—Daniel. Ezra. Selections from the Targums. *Literature.*—Books to be selected at the beginning of the session
Two hours a week.

5*a*. HEBREW.—Malachi, Psalms, 1-72; Job, 26-42. *Literature.*—Renan. A general History of the Semitic Languages.

5*b*. SYRIAC.—Selections from the Peshito, and from the Chronicles of Bar Hebræus. *Literature.*—W. Wright, Comparative Grammar of the Semitic Languages.
Two hours a week.

DEPARTMENT OF PHILOSOPHY.

PROFESSORS: { W. CALDWELL, M.A., D.Sc.
A. E. TAYLOR, M.A.

LECTURERS: { HILDA D. OAKELEY, M.A.
J. W. HICKSON, M.A., Ph.D.

The courses in this department are designed to meet the wants of students in the Faculty of Arts, of students in the professional schools and of partial students.

In addition to regular and continuation courses short sets of study or lecture-courses are given from time to time. See e.g. Course 14 or Courses 2A, 2B.

In all the ordinary courses such topics as the subject of Scientific Method, the relation of Ethics to Legal and Social questions, the relations of Psychology and Philosophy to Education, etc., are definitely kept in view.

Attention is drawn to the fact that it is now possible for students to specialise in Psychology as well as in Mental and Moral Philosophy.

1A. Pyschology. Text-book: James, Psychology, Briefer Course, pp. 1-216 (omitting pp. 78-90). **Ordinary. Second Year**

This course will include a general account of sensation, with special illustration by reference to the sensations which are of pre-eminent importance for the purposes of practical life (sight, hearing, contact, movement). This will be followed by a general outline sketch of the functions of the central nervous system and particularly of the higher brain-centres, as the physiological correlates of mental activity. In this connection

reference will be made to the more important results obtained from vivisectional experiment and from the study of mental disorder. The nature of Habit and its importance for mental life will next be studied, and the course will conclude by an examination of the leading features of the concrete stream of actual mental life and the principal constituents of the self. Three hours weekly throughout the first term of the session. Occasional essays may be prescribed.

1B. Formal logic.—In the second term a course in Formal Logic and Fallacies. Text book: S. H. Mellone, Introductory Text Book of Logic. The course will embrace an outline of the general formal principles of valid reasoning, with frequent illustrations of their application to actual discussion. This will be followed by more detailed examination of the types of fallacious reasoning most commonly perpetrated in literature and daily life. Weekly exercises will be set and will form an important feature of the course. Three hours weekly.

Advanced Sections.

2A. Introduction to Philosophy.—Study of some easy pieces of typical philosophical literature such as Descartes' "Discourse on Method," Berkeley's "Dialogues," Plato's "Phaedo," Spencer's "First Principles." Lecture notes upon the same. This course is designed to start students upon the work of intelligent philosophical reflection and will not in the first instance entail an undue amount of work upon their part. It will be adapted to the needs of beginners in philosophy whether ordinary or partial students.

One hour a week throughout the session.

2B. An Introduction to Psychophysics.—This course will form a supplement to 1A, for those students who desire to become acquainted with recent investigations of some elementary problems of Psychophysics. No text-book is prescribed, students being referred to different authors according to the problems investigated.

One hour a week throughout the session.

Ordinary. Third or Fourth Year.

3A. Moral Philosophy.—In the first term a course on the Outlines of Ethical Theory. The following topics—among others—will be treated of by means of short sets of lectures, study-notes, private reading, exercises, discussion, etc.:—The phenomena of the moral life in the individual and in the race; the postulates of ethical science; the relations of Ethics to the sciences, to Jurisprudence, Politics, etc.; Theories of Conscience

and the Moral Standard; Classical and Modern conceptions of Moral Philosophy; the Ethics of Idealism and the Ethics of Evolution; the theory of Moral Progress.

3B. In the second term a course on the problems of Social Philosophy and Applied Ethics.

Short sets of lectures will be given upon the following topics: Modern views upon society regarded as an organism; the Social Psychology of recent years and its relations to Ethics; the Philosophy of Society and the relation of Ethics to Sociology; the Social Philosophy of Comte, and Spencer and their successors; the Ethics of Social Questions; Moral Pathology and Moral Training; Philosophy and Education and Social Rèform.

Mackenzie's Manual of Ethics will be used for purposes of class-room discussion, but the student will constantly be referred to the literature of the subjects treated.

The course will be varied from year to year according to the needs of the subject and those of the students.

Four hours per week.

4A. General Course in Psychology, analytic and experimental.—An attempt will be made to give a survey of the field of Psychology and to illustrate and test some of the results reached by leading investigators. Among the problems to be discussed will be: Psychophysical Correlation, Psychophysical Methods, Perception and the Doctrine of Specific Sense-Energies, Attention, Association, Perception of Space, Theories of Emotions and Will.

4B. (Continued throughout the session.)

Books recommended: James, Principles of Psychology; Stout Manual of Psychology, Ebbinghaus, Grundzüge dre Psychologie, Titchener, Manual of Experimental Psychology.

Four hours a week throughout the session.

5. Logic and Metaphysics.—The course in its earlier lectures will follow in the main the lines of Bosanquest's *Essentials of Logic* of which the student will be expected to make a special study. The attempt will first be made to determine the relation between the problem of Logic and that of Metaphysics, and the nature of the ultimate presuppositions of valid inference. The course will then discuss the morphology of knowledge, i.e., the degree in which the various special forms of Proposition and Inference realise our ideal of systematic truth. This

will be followed by a general examination of the more important inductive methods of experimental science, and a discussion of the ultimate principles implied in the experimental sciences, as in Mellone's *Introductory Text-book*, or Mill's *System of Logic*. Finally, the relation between existence, knowledge and truth will be dealt with in a general way. The course thus aims at being at once a continuation of the previous year's course in Logic and an introduction to the problems of Metaphysics and the theory of knowledge, which are pursued further in courses 10 and 13.

Four hours a week throughout the session.

Books of reference:—Bosanquet, Logic; Bradley, Principles of Logic; Mill, System of Logic; Jevons, Principles of Science; Venn, Empirical Logic; Taylor, Elements of Metaphysics.

Ordinary Fourth Year, and Honours Third Year.

6 A. History of Modern Philosophy.

First Term: From the Renaissance to Kant.

Four hours a week.

6 B. Second Term: From Kant to the Present Time.

Text-books recommended:—Falckenberg's History of Modern Philosophy; Höffding's History of Modern Philosophy (2 vols. translated by Meyer); Adamson's Development of Modern Philosophy.

Four hours a week.

Honours. Third Year.

7. A course in Greek Philosophy. This begins with the colonial period, during which philosophical activity was most energetic among the colonies of the Greeks in Asia Minor and Italy. It then passes on to the Athenian period, beginning about the middle of the fifth century B. C., when Philosophy found a home in the greatest centre of intellectual life in the ancient world. A third period is then described, during which Philosophy extends its culture over ancient life by the spread of the great schools, especially the Stoical and the Epicurean, which arose towards the end of the fourth century, B. C. Finally, some account is given of the movement, of which Alexandria was the centre and by which Greek Philosophy was brought into contact with Oriental thought. The history is carried down to the closing of the Pagan Schools in Athens by the Emperor Justinian. Students are expected to make an independent study of the fragments of one of the early philosophers, and to write an essay embodying the results of their study.

Books of Reference: Zeller, History of Greek Philosophy; Windelband, History of Ancient Philosophy; Burnet, Early Greek Philosophy; Ritter and Preller, Historia Philosophiæ Græcæ; E. Wallace, Outlines of the Philosophy of Aristotle.

Two hours weekly.

8. Plato and Aristotle. In this course it is expected that some work of each of these thinkers will be read.

Books prescribed for 1904-5 and 1905-6:—Plato, Philebus; Aristotle, Metaphysics, Bk. A. Two hours weekly.

Courses 7 and 8 will be given in alternate years.

9. The Philosophy of Kant.—Lectures, study notes, and discussions of the writings of Kant, with a study of Kant's influence upon philosophy. The various translations of Kant or of portions of Kant's writings will be used, with use of the German text where possible. Two hours weekly throughout the session.

Honours. Fourth Year.

10. Advanced Formal Logic.—This course will discuss the defects and limitations of the traditional Aristotelian Formal Logic, and the various extensions and modifications of it which have been proposed in modern times. Special difficulties in the traditional doctrines of Terms and Immediate Inferences will be dealt with on the lines of Keynes's *Studies in Formal Logic*. Types of formally valid reasoning concerning relations which cannot be reduced to syllogistic form will be examined and some attention will be paid to the peculiarities of reasoning from mathematically definite premisses. An account will then be given of some leading attempts to extend the range of Formal Logic by taking extension rather than intension as its basis (Quantification of the Predicate, Jevons's Equational Logic), and the course will end with an elementary examination of the principles of the modern Algebra of Logic as created by Boole.

One hour a week. Occasional exercises will be given.

Books of reference recommended:—Boole, Laws of Thought; Jevons, Principles of Science and Studies in Deductive Logic; Keynes Studies in Formal Logic; Venn, Symbolic Logic.

11. Psychological Seminary. For the investigation of special problems to be determined at the beginning of the session.

Two hours weekly throughout the session.

12. Advanced Moral Philosophy.—Designed to meet the wants of students who have taken course 3 or who are otherwise competent to undertake the study of the more important works (Classical or Modern) upon the theory of morals, or to pursue the study of special questions in Ethics and Social Philosophy.

As a rule a careful study will be undertaken of the following works:—Aristotle's Ethics, Green's Prolegomena to Ethics, Sidgwick's Methods of Ethics, along with prescribed portions of writers like Spencer, Stephen, Martineau, and others. Special topics, however, (both in Theoretical and Applied Ethics) will also be prescribed for investigation and discussion, and the course will be varied from year to year to suit the needs and the capacities of students. It may occasionally be applied to suit the needs of advanced students in other departments, such as Classical or Modern Literature, Political Economy, Biology, History. Two hours weekly throughout the session.

13. Topics in Philosophy.—Independent and detailed study of such questions in philosophical science as may, from time to time, seem to require specialised treatment. Such topics as the following may be considered:

Systematic thinkers of the Seventeenth Century; the English Utilitarians; the Problem of Perception; the Philosophy of Evolution. Two hours a week.

In addition to the above mentioned courses students will be examined at the end of the session on some book or books to be read privately. Subjects for the session 1904-5 will be Descartes' Meditations, and Schopenhauer's Principle of Sufficient Reason and World as Will and Idea. Or instead of this, an original essay on some ethical or psychological topic may be prescribed.

14. General Introduction to Philosophy.—During the winter 1904-5, the experiment will be made of a short series of lectures (six or eight) upon the general nature of Philosophy and Philosophical Ideas in relation to Modern Tendencies.

The lectures will be intended for persons inside and outside the University.

They will embrace such topics as:

1. What is Philosophy?
2. Rationalism and Agnosticism.
3. Philosophy and Social Evolution.
4. Problem of the relation of Physical and Psychical.

A printed sheet with detailed statements as to the matter of the Lectures will be issued at the beginning of the winter.

A nominal fee will be charged.

DEPARTMENT OF HISTORY.

PROFESSOR :—CHARLES W. COLBY, M.A., PH.D.
LECTURER :—STEPHEN B. LEACOCK, B.A., Ph.D.

1. The Main Epochs of European History. **Ordinary. First Year.**

Twenty-four lectures will be given on as many subjects, taken from Ancient, Mediæval and Modern History. The design of the course is less to present a mass of facts than to illustrate the chief features of racial, political and social progress. A syllabus has been prepared which contains a list of topical readings. The sessional examination will be based mainly on these and on the following text-book:—"European History," by G. B. Adams (Macmillan). The results of the examination will be counted under the head of English. Students will be required to present short essays on historical subjects at regular intervals. A few illustrated lectures may also be given if suitable hours can be found. The use of Putzger's Historischer Schul-Atlas is recommended.

One hour a week.

2. The Mediæval and Modern History of Europe, 313-1648 **Ordinary. Third or Fourth Year.**

This is a general course dealing with the historical development of European nations from the Edict of Milan to the Peace of Westphalia. Special attention will be devoted to institutions and movements. Topics for investigation will be frequently assigned, and students will write at least one thesis during the year. Readings to accompany each lecture are assigned in the syllabus for the course.

Four hours a week.

3. The Renascence. Two hours a week. (Omitted in 1904-1905.) **Honours. Third and Fourth Years.**

4. The Reformation,—1563. Two hours a week. (Omitted in 1904-1905.)

5. The Catholic Revival and the Thirty Years' War. Two hours a week.

6. The Political and Constitutional History of Europe since 1789. Four hours a week. (Omitted in 1904-1905.)

Ordinary and Honours. Third and Fourth Years.

7. English Constitutional History—1307. The lectures of this course will follow the organic development of the English Constitution from the earliest period to the death of Edward I, and they will also embrace some comparison of English political institutions with those of continental Europe. The later constitutional history of England will be among the subjects treated under Political Science (See p. 111). Two hours a week.

Honours. Fourth Year.

8. The Political and Constitutional History of the United States.

This course will comprise a study of the foundation of the American Colonies and of the establishment of self-government in them; the origin and formation of the constitution of the United States; the political and constitutional history of the American Union and the development of Federal constitutional law as affected by the more important decisions of the Supreme Court. Four hours a week.

Texts.—Honour Students in History will be examined at the end of the Third Year on the following texts:—

Herodotus, VI—VIII, Macaulay's trans.; Thucydides, I, II, 1—65, VI, VII, Jowett's trans.; Plato, The Republic, Jowett's trans.; Plutarch, The Lives of Aristides, Themistocles, Pericles and Timoleon, Clough's trans.; Polybius, I, II, V, Shuckburgh's trans.; Livy, XXI-XXII, Church and Brodribb's trans.; Tacitus, Annals II, Germania, Vita Agricolae, Church and Brodribb's trans.

Honour students in History will be examined at the end of the Fourth Year on the following texts:—

Clarendon, History of the Rebellion, Book XI; Gibbon, Decline and Fall, chaps. XLIV, L, LI, LXVI; Burke, Reflections on the French Revolution; Macaulay, History of England, chap. III; Bagehot, The English Constitution; Stubbs, Select Charters, Introduction; Captain Mahan, The Influence of Sea Power on History; Langlois et Seignobos, Introduction aux Etudes Historiques, trans. G. G. Berry; Bryce, The American Commonwealth, Vol. I; Parkman, Montcalm and Wolfe.

Summer Readings.—All students in History are expected to follow a course of Summer Readings as a preparation for the work of the ensuing session. Special programmes will be drafted with a view to individual needs.

Honour Courses in History and Economics.—A combined course for Honours in History and Economics is now offered, with a choice between studies (A) chiefly in history and politics, and (B) chiefly in economics and politics. The courses of lectures prescribed for Honour Students are as follows:—

A. 3rd Year.—History, 2, 5, 7;
Political Science, 6;
Economics, 1.
4th Year.—History, 5, 7, 8;
Political Science, 7 or 8;
Economics, 2, 3.*

B. 3rd Year.—Economics, 1, 4, 5;
Political Science, 6;
History, 2.
4th Year.—Economics, 2, 3, 4, 5;
Political Science, 7, 8;
History, 5, 7.

DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE.

PROFESSOR:—A. W. FLUX, M.A.
LECTURER:—STEPHEN B. LEACOCK, B.A., Ph.D.

1. ELEMENTS OF ECONOMICS.

Ordinary. Third or Fourth Year.

The scope and method of Economic Science; the organization of production; the theory of value; the distribution of wealth, including the theories of rent, wages, interest and profits; exchange and the mechanism of exchange; the theory of money; international trade; principles of taxation.

Four hours per week throughout the Session.

Text-book:—A. W. Flux, Economic Principles.

For further reference:—Keynes, Scope and Method of Political Economy; F. A. Walker, Political Economy (Advanced Course); Hadley, Economics; Marshall, Principles of Economics; J. S. Mill, Principles of Political Economy, Book III; Jevons, Money and the Mechanism of Exchange; Bastable, Theory of International Trade; Sidgwick, Principles of Political Economy, Book III.

2. HISTORY OF ECONOMIC THEORY.

Honours. Fourth Year.

The development of economic doctrine will be traced, especially in relation to the special contributions of individual

* For Economics 2 or 3, may be substituted History of Philosophy (half course.)

writers of great prominence. A closer examination of economic theories treated of in the preceding course will be made.

Text-books:—Price, Short History of Political Economy in England; Cohn, History of Political Economy.

Works of Reference:—Cossa, Introduction to the Study of Political Economy; Ingram, History of Political Economy; Sewell, The Theory of Value before Adam Smith; Cannan, History of the Theories of Production and Distribution; together with the treatises of the principal classical economists.

Four hours per week during the first half of the Session.

Honours. Fourth Year.

3. (*a*) Currency, Banking and Trade.

Half course of 50 lectures (Omitted in 1904-05).

(*b*) The Theory of Distribution. (Omitted in 1904-05.)

(*c*) Economic Problems of Great Cities.

The drift of population into cities, health, overcrowding, sweating, pauperism and charity, labour organisations, municipal finance.

Works of Reference:—Booth, Life and Labour of the People; Rowntree, Poverty; Mackay, Public Relief of the Poor; Sykes, Public Health and Housing; Hull House Maps and Papers; Conkling, City Government in the United States; Goodnow, Municipal Problems, and various official publications.

Four hours per week during the second half of the Session.

4. (*a*) History of Industry and Commerce.

The development of industry, agriculture, transportation and commerce from the middle of the eighteenth century; commercial policy and its changes; colonial development; industrial legislation and the growth of associative effort.

Two hours per week throughout the Session.

Text-book:—Gibbins, Economic and Industrial Progress.

Works of Reference:—Toynbee, The Industrial Revolution; Boernreither, English Associations of Working Men; Cunningham, Growth of English Industry and Commerce in Modern Times, Part II; Webb, History of Trade Unionism; Porter, Progress of the Nation.

(*b*) Public Finance. (Omitted in 1904-5.)

5. Seminary in Economics and Political Science. Candidates for Honours in History and Economics (Course B), will attend the economic seminary. A more careful study of the writings of leading economists and publicists will be made than is possible in connection with the ordinary courses of lectures. Re-

ports will be prepared by the members of the class, and methods of investigation illustratel practically. The extra examination papers referred to below (p. 112) will have reference, in part, to the work of the Seminary.

The meetings of the Seminary will be weekly.

6. Elements of Politics. **Ordinary. Third or Fourth Year.**

The introductory part of the course will deal with the general principles of Political Science, the nature of the State and the different theories of its purpose and origin.

The main work of the year will consist of a study of comparative national government. The constitutions, governments and political parties of Great Britain and the United States will be treated in detail. The governmental systems of continental Europe will also be examined.

Four hours per week throughout the Session.

Text-book:—The State (Woodrow Wilson).

Books of Reference:—Sidgwick, Elements of Politics; Burgess, Political Science and Constitutional Law; Anson, Law and Custom of the Constitution; Bryce, American Commonwealth; Bodley, France; Lowell, Governments and Parties in Continental Europe.

7. Legislative Policy. **Honours. Fourth Year.**

This course will consist of a detailed examination of the functions exercised by the State in industrial control. Modern legislation and legislative theories will be discussed in reference to their economic effects. Reports by members of the class upon special topics will be made a prominent feature of the work.

Four hours per week during the first half of the Session.

Books of Reference:—Leroy Beaulieu, The Modern State; Sidgwick, Elements of Politics, chaps. IV, IX, X; Farrar, The State in Relation to Trade; Jevons, The State in Relation to Labour; Frankenstein, Der Arbeiterschutz, seine Theorie und Politik.

8. (*a*) History of Political Theory. (Omitted in 1904-5.) **Honours Fourth Year.**
(*b*) Tariff Legislation.

The course will comprise a study of the rise and development of the protective system, together with its economic and political effects.

Four hours per week during the second half of the Session.

Works of Reference:—Dowell, History of Taxation and Taxes in England; Taussig, Tariff History of the United States; Montgredien, History of the Free Trade Movement; Clement, Histoire du Système Protecteur en France; Garnier, Notes et Petits Traités; Grunzel, System der Handelspolitik.

Summer Readings.—Students who intend to follow the Honour course in Economics and Political Science are advised to pursue a course of preparatory readings during the summer vacation preceding the commencement of that course.

Special programmes will be drafted with a view to individual needs.

During the summer vacation following the Third Year they are advised to study the following books:—

Adam Smith, Wealth of Nations; Ricardo, Principles of Political Economy and Taxation; J. S. Mill, Principles of Political Economy; Sidgwick, Elements of Politics; Leroy Beaulieu, The Modern State. Students are strongly recommended to obtain the advice of the members of the Department as to their summer readings.

Honour Courses.—Students of the Third Year who are candidates for Honours in History and Economics, and select Course B (see p. 109), will take the following courses of lectures: History, 2; Economics, 1, 4, 5; Political Science, 6. Students of the Fourth Year who are candidates for Honours in History and Economics, and have selected Course B, will take the following courses of lectures: History, 5, 7; Economics, 2, 3, 4, 5; Political Science, 7, 8.

The examination of honour students on courses 1 and 6 will include an extra paper, as well as those set to the rest of these classes.

Constitutional Law.

Professor:—F. P. Walton (Dean Faculty of Law.)

The Constitutional Law of Canada will be treated in the following order:—1. Canadian Constitutional History prior to Confederation. 2. The British North America Act, and the leading cases under it which illustrate the respective powers of the Dominion and the Provinces. 3. The fundamentals of English Constitutional Government which form the basis of the Canadian Constitution. 4. The Cabinet System. 5. The

difference between English and French practice as to responsibility of officials.

Two hours a week.

Roman Law.

LECTURER :—F . P. WALTON (DEAN FACULTY OF LAW).

1. A Course is offered in Roman Law, open to Third and Fourth Year students in Arts, and qualifying as an option for the B.A. degree. For details, see Faculty of Law, *post*.

DEPARTMENT OF MATHEMATICS.

PROFESSOR :—J. HARKNESS, M.A.

ASSOCIATE PROFESSOR:—H. M. TORY, M.A., D.Sc.

ASSISTANT PROFESSOR :—MURRAY MACNEILL, M.A.

LECTURER :—A. S, EVE, M.A.

TUTOR (ROYAL VICTORIA COLLEGE):———————

1. PLANE AND SOLID GEOMETRY.—The equivalent of Books IV, VI and XI of Euclid, with supplementary matter. Hall and Steven's Euclid. **Ordinary. First Year**

Algebra.—Hall and Knight's Elementary Algebra (omitting chapters 36, 40, 41, 42), or the same subject matter in similar text-books.

Trigonometry.—Hall and Knight's Elementary Trigonometry: the Elements of Spherical Trigonometry. Nature and use of Logarithms.

Four hours per week.

2. GEOMETRY.—(*a*) Solid Geometry, continuation of the First Year; (*b*) Geometrical Conic Sections, Wilson's Solid Geometry and Geometrical Conics. **Second Year.**

Algebra.—Exponential and Logarithmic series; Undetermined Coefficients; Partial Fractions; Elementary Theory of Probabilities; Elements of Determinants; Graphic Methods.

Three hours per week.

3. Elementary Analytical Geometry; Elementary parts of the Differential and Integral Calculus; Simple Differential Equations. **Third or Fourth Year.**

Four hours per week.

4. Astronomy.—This course is intended to give a general account of the main facts of Astronomy, and the methods by which these facts are obtained. The lectures will be illustrated, and occasional evenings will be given to work in the observatory.
Two hours per week.
Text-book: Parker's Elements of Astronomy.

Advanced Sections. First Year.

5. Lachlan's Modern pure Geometry; Hall and Knight's Advanced Algebra; Burnside and Panton's Theory of Equations (selected course); Trigonometry, as in ordinary course; Higher Trigonometry, Lock.
Four hours per week.

Second Year.

6. Analytical Geometry.—Chs. Smith's Conic Sections.
Differential and Integral Calculus.—Lamb's Infinitesimal Calculus.
Four hours per week.

Honour Courses. Third Year.

7. Selected topic in Differential and Integral Calculus.
8. Differential Equations.
9. Geometry of Three Dimensions.
10. Vector Analysis.

In addition students reading for Honours will be required to take course 4, and selected topics from course 5, under Physics, see page 117.

Fourth Year.

The courses given will be selected from the following:—

11. Introduction to Theory of Functions.
12. Elliptic Functions.
13. Lectures in connection with Scott's Modern Analytic Geometry and the Early Chapters of Salmon's Higher Plane Curves.
14. Lectures on Modern Geometry, based on Reye's Geometry of Position.

In addition students reading for Honours will be required to take the seminary topics of course 5, under Physics, see page 117.

15.—A Special Course for Graduates and Advanced Students, to be given by Dr. Tory during the Session 1904-1905.

Applied Mathematics.—The object of the course will be to give the student an introduction to those parts of Mathematics which are indispensable for the study of Advanced Physics and allied subjects. The course will be mainly concerned with the

Partial Differential Equations which occur in Mathematical Physics. Among the topics treated will be the following:—The Mathematical Theories of Attraction and Potential, with their applications; Fourier's Series; Zonal and Spherical Harmonics and Bessel's Functions.

The applications to Physical problems will be illustrated by numerous examples.

DEPARTMENT OF PHYSICS.

PROFESSORS: { JOHN COX, M.A., LL.D. / E. RUTHERFORD, M.A., D.Sc.

ASSISTANT PROFESSOR:—HOWARD T. BARNES, D.Sc.

DEMONSTRATORS:— { C. C. SCHENCK, PH.D. / A. S. B. LUCAS, B.Sc.

Ordinary. First Year.

1. PHYSICS.—This course has two objects: (1) to give the minimum acquaintance with Physical Science requisite for a liberal education to those whose studies will be mainly literary; (2) to be introductory to the courses in Chemistry and other branches of Natural Science, and to the more detailed courses in Physics in the Third and Fourth Years. Only the most important principles in each branch of the subject will be treated, as far as possible, with reference to their historical development and mutual relations; and they will receive concrete illustration in the study of the principal instruments in daily use in the laboratory. Two illustrated lectures will be given per week. During the session each student will be required to attend in the laboratory eight times, and make measurements involving the use of the following instruments:—*Balance, Pendulum, Barometer, Thermometer, Sonometer, Telescope or Microscope, Tangent Galvanometer, Wheatstone's Bridge.*

Outline of Syllabus. The scope and method of Science, Primary Phenomena ("States and Properties of Matter"), Motion, Velocity, Acceleration, Laws of Motion, Momentum, Energy, Work. The Parallelogram Law for Velocities and Forces, Equilibrium and the Simple Machines. Uniform circular motion, Vibration, the Pendulum, Fluid Pressure, the Barometer, Specific Gravity. Summary of *Mechanics*, indicating the principle of the Conservation of Energy.

The missing Energy traced in (1) *Sound*. Nature of wave Motion. Intensity, Pitch and Quality of Musical Notes. The stretched String and Organ Pipe. Resonance.

(2) *Heat.* Temperature and the Thermometer. The Calorimeter, Fusion and Vaporisation. Laws of Boyle and Gay-Lussac. The Mechanical Equivalent. Application of Conduction, Convection and Radiation to common problems of Climate, Ventilation, etc.

(3) *Light.* Reflection, Refraction, the Spherical Mirror, Prism, Lens, Microscope, Telescope, Spectroscope, Polariscope. Principle of Interference and sketch of the Undulatory Theory.

(4) *Electricity and Magnetism.* The Electrophorus, the Modern Induction Machine, the Condenser. Coulomb's Law of Force. The idea of Potential. The Quadrant, Electrometer. Atmospheric Electricity. Magnetic Pole, Moment, Field and Law of Force. The Compass and Terrestrial Magnetism. Effects of Current. The Voltameter and Storage Cell. The Galvanometer. Heating Effects. Simple Batteries. Ohm's Law. Units and Measurement of Current Resistance, Electromotive Force, Mutual Mechanical Effects of Conductors and Magnetic Fields. Principle of the Electric Motor. The Electro-magnet. Induction of Currents, and Principle of the Dynamo. Applications to Telegraph, Telephone, Lighting, and supply of Power.

Conclusion.—Restatement of Principle of Conservation of Energy in complete form. Dissipation of Energy.

Two hours a week.

Third Year

2. Experimental Physics.—(*First Course.*)—Laws of Energy, Sound, Light and Heat. *Text-books:*—Deschanel, Part IV, or Ganot or Jones; Heat (Wright's, Longmans).

Lectures fully illustrated; two hours a week, with Laboratory Course, three hours a week.

Laboratory Manuals.—Tory and Pitcher; Chandler.

Sound.—Velocity of Sound; Determination of Rates of vibration of Tuning Forks; Resonance; Laws of vibration of strings.

Light.—Photometry; Laws of Reflection and Refraction; Indices of Refraction; Focal Lengths and Magnifying Powers of Mirrors, Lenses, Telescopes and Microscopes; the Sextant, Spectroscope, Spectrometer, Diffraction Grating, Optical Bench and Polariscopes.

HEAT.—Construction and Calibration of Thermometers; Melting and Boiling Points; Air Thermometer; Expansion of solids, liquids and gases; Calorimetry; Specific and Latent Heats; Laws of Vapour Pressure; Radiation; the Mechanical Equivalent of Heat.

3. EXPERIMENTAL PHYSICS. — (*Second Course.*) — Electricity and Magnetism. *Text-book:*—Ganot or S. P. Thompson. **Fourth Year.**

Lectures fully illustrated; two hours a week, with Laboratory Course, three hours a week.

Laboratory Manual.—Tory and Pitcher.

Measurement of Pole Strength and Moment of a Magnet; the Magnetic Field; Methods of Deflection and Oscillations; Comparison of moments and determination of elements of Earth's magnetism. Frictional Electricity. Current Electricity—Complete course of measurements of Current Strength, Resistance and Electromotive Force; Calibration of Galvanometers; the Electro-dynamometer; Comparison of Galvanometers; the Electrometer; Comparison of Condensers; Electromagnetic Induction.

N.B.—For advanced Courses intended for Electrical Engineering Students and Graduates pursuing the study of Physics, see Calendar, Faculty of Applied Science.

4. Mechanics and Hydrostatics.—Two hours a week. **Honour Courses. Third and Fourth Years.**

5. Analytical Statics; Dynamics of a Particle; Rigid Dynamics; Hydromechanics.

6. Advanced Courses in Heat, Optics and Electricity. A short course in Physical Chemistry.

In addition students reading for honours will be required in the Third Year to take courses 7, 8, 9, 10, under Mathematics, and in the Fourth Year, the courses selected from 11, 12, 13, 14.

7. Special courses for Graduates and Advanced Students will be given during the Session 1904-05, at hours to be arranged, as follows:—

By Prof. Cox.—The relation of Optics and Electricity.

By Prof. Rutherford.—The processes occurring in Radioactive Elements.

By Dr. Barnes.—On Electrical Standards.

By Dr. Tory.—On Applied Mathematics. (See page 114, course 15.)

DEPARTMENT OF CHEMISTRY.

PROFESSORS:—B. J. HARRINGTON, M.A., PH.D., LL.D.
J. WALLACE WALKER, M.A., PH.D.

ASSISTANT PROFESSOR:—NEVIL NORTON EVANS, M.A.Sc.
LECTURER—A. DOUGLAS MCINTOSH, M.A.

DEMONSTRATORS:—
BERTRAM D. STEELE, D.Sc.
E. H. ARCHIBALD, A.M., PH.D.
J. E. A. EGLESON, B.Sc.
W. S. HUTCHINSON, M.Sc.
W. LLOYD LODGE, M.A.

LECTURE ASSISTANT:—M. VIOLETTE DOVER, B.A., M.Sc.

Second Year.

1. GENERAL CHEMISTRY.—A Course of lectures on Elementary Chemical Theory, and on the principal elements and their compounds. The lectures are fully illustrated by means of experiments.

   Text-book:—Holleman's Text-book of Inorganic Chemistry (Translation by Cooper).

   Three hours a week.

   ELEMENTARY PRACTICAL CHEMISTRY.—This course is compulsory for all undergraduates taking the above course of lectures. The work includes experiments illustrative of the Laws of Chemical Combination, the Preparation of Pure Chemical Compounds, and elementary Qualitative Analysis.

   Six hours a week.

Third Year.

2. INORGANIC CHEMISTRY.—A course on special departments of Inorganic Chemistry.

   One hour a week.

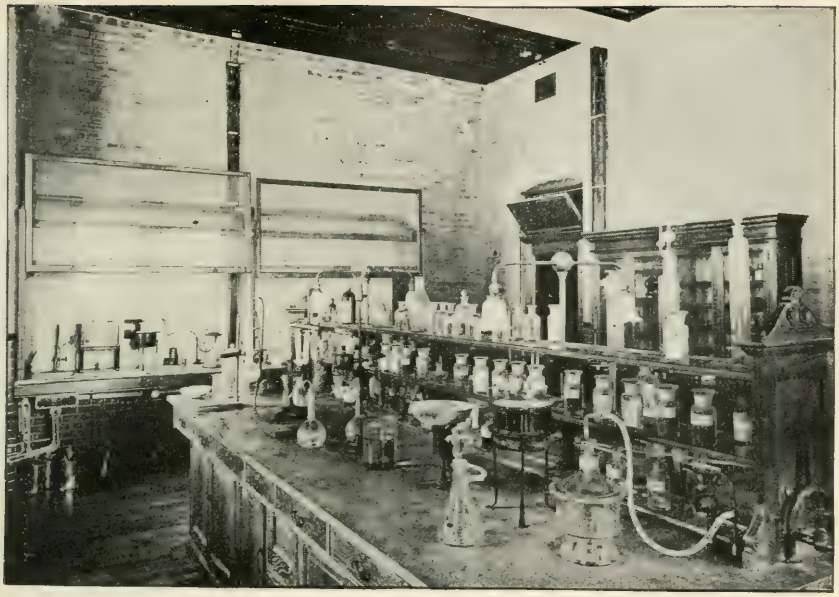
3. ELEMENTARY ORGANIC CHEMISTRY.—An elementary course of lectures on Organic Chemistry open to Biological Students and compulsory for students intending to take the advanced course on Organic Chemistry in the Fourth Year.

   Text-book.—Holleman's Text-book of Organic Chemistry.

   One hour a week.

4. ADVANCED PRACTICAL CHEMISTRY.—Laboratory practice in methods of gravimetric, volumetric and electrolytic Quantitative Analysis, during the first term, and preparation of simple Organic Substances in the second term.

   Six hours a week.



Macdonald Chemistry Building.—A Research Laboratory.

Macdonald Mining Building.—An Assay Room.

Note.—Extra reading and laboratory work will be required from Honour Students.

5. Organic Chemistry.—A systematic course of lectures on Organic Chemistry, including the Analysis of Organic Substances, Calculation of Formulæ, Determination of Molecular Weights, Polymerism, Isomerism, etc., followed by a discussion of the more important derivatives of the Aliphatic and Aromatic Series of Compounds. Two hours a week. **Fourth Year.**

6. Practical Organic Chemistry.—A complete course on the preparation and analysis of Organic Substances, with determinations of Molecular Weights, etc.

7. Physical Chemistry.—The lectures on Physical Chemistry are divided into two parts. In the first term they include a study of such physical properties of gases, liquids, and solids as are known to depend upon their Chemical Constitution; Thermo-chemistry; and the Law of Mass Action. The second term is devoted to Electro-chemistry. The lectures will be based upon the applications of the gaseous laws to solutions.
Two hours a week.

8. Practical Physical Chemistry.—Laboratory work will include the various methods of determining the Molecular Weights of gases and of substances in solution, accurate measurement of Densities, Refractive Indices, Surface Tensions and Specific Rotations; also examples of Chemical Statics and Kinetics, and Electro-chemical measurements.

9. Mineral Analysis.—A course of laboratory work comprising advanced quantitative analysis and investigation of the constitution of mineral species.

Honour Courses.

(1) Chemistry, 2, 3, 4; (2) Experimental Physics; (Course 2); and one of the following:—Mechanics (Course 4), with Differential and Integral Calculus (4 hours a week for the first half of second term or 2 hours a week for whole term), or Biology, or Geology, or Mineralogy. **Third Year.**

(1) Chemistry, 5, 6, 7, 8; or 7, 8, 9; (2) Experimental Physics (Course 3). **Fourth Year.**

Mineralogy.

PROFESSOR:—B. J. HARRINGTON, M.A., PH.D., LL.D.

Honours. Third Year.

1. MINERALOGY.—Lectures and demonstrations illustrated by models and specimens in the Peter Redpath Museum and the Macdonald Chemistry and Mining Building. Among the subjects discussed are: Crystallography; physical properties of minerals dependent upon light, electricity, state of aggregation, etc.; chemical composition, calculation of mineral formulæ, quantivalent ratios, etc.; principles of classification, description of species.

   Two hours a week.

Fourth Year.

2. MINERALOGY (In continuation of No. 1).—Description of species, particular attention being paid to those which are important as rock constituents and to the economic minerals of Canada.

   First term, two hours a week.

Third Year.

3. DETERMINATIVE MINERALOGY.—Laboratory practice in blow-pipe analysis and its application to the determination of mineral species. This work is carried on in the laboratory provided for the purpose in the Chemistry and Mining Building.

   Thursday, 2 to 5 p.m.

DEPARTMENT OF GEOLOGY.

PROFESSOR :—FRANK D. ADAMS, D.Sc., PH.D.
DEMONSTRATOR :—ALFRED W. G. WILSON, M.A., PH.D.

Ordinary. Third Year.

1. General Geology.—The lectures will embrace a general survey of the whole field of Geology, and will be introduced by a short course in Mineralogy. Especial attention will be devoted to Dynamical Geology and to Historical Geology including a description of the fauna and flora of the earth during the successive periods of its past history.

   The lectures will be illustrated by the extensive collections in the Peter Redpath Museum, as well as by models, maps, sections and lantern views. There will be an excursion every Saturday until the snow falls, after which the excursion will be replaced by a demonstration in the Museum.

Text-book:—Scott, An Introduction to Geology.

Books of Reference:—Dawson, Hand-Book of Geology; Dana, Manual of Geology.

Three hours a week throughout the year, with additional excursions and demonstrations as above stated.

Honour Course in Geology and Mineralogy. **Honours. Third Year.**

(For Mineralogical portion of this course, see p. 120.)

In the Third Year, students pursuing the Honour Course will take the Ordinary work (General Geology, 1).

In the Fourth Year they will take the following courses:—2, 3, 4, 5, 6 and 7. **Honours. Fourth Year.**

2. Petrography.—The modern methods of study employed in Petrography are first described, and the classification and description of rocks are then taken up.

One lecture a week during the first term. One afternoon a week throughout the year will be devoted to special microscopical work in the Petrographical Laboratory.

Text-book:—Harker, Petrology for Students.

Books of Reference:—Rosenbusch, Mikroskopische Physiographie, and Rutley, Rock-forming Minerals.

3. A. Palæontology.—An extension of the Palæontology of Course 1, with special studies of some of the more important groups of fossils.

One lecture a week during the second term and one demonstration a week, with special studies in the Peter Redpath Museum.

Books of Reference:—Nicholson and Lydekker, Manual of Palæontology; Zittel & Eastman, Text-Book of Palæontology.

or

3. B. Physiography.—A description of Land Forms with reference to their origin, classification, drainage, development, climatic and human controls.

The physical features of Canada will be described during the latter half of the course.

The course will consist of lectures, demonstrations, and laboratory work, and will be illustrated by maps, models, and lantern slides.

Two hours a week during the first term.

Books of Reference:—Davis, Physical Geography; Mill, The International Geography.

4. Ore Deposits, Economic Geology and Practical Geology.—The nature, mode of occurrence and classification of Ore Deposits will first be taken up. A series of typical occurrences will then be described and their origin discussed—the more important non-metallic materials—*e.g.*, Fuels, Clay, Abrasive Materials, Building Stones, etc., will be similarly treated, as well as questions of water supply, Artesian Wells etc. The methods employed in carrying out Geological and Magnetic Surveys and in constructing Geological Sections will then be taken up with special studies in folding, faulting, etc.

Four lectures a week throughout the Second Term.

The course will be illustrated by maps, models, lantern slides and specimens.

Text-books:—Geikie, Outlines of Field Geology; Kemp, Ore Deposits of the United States and Canada; Phillips and Louis, A Treatise on Ore Deposits.

Books of Reference:—The Monographs of the U. S. Geological Survey, and the Reports of the Geological Survey of Canada.

5. Canadian Geology.—A general description of the Geology and Mineral Resources of the Dominion.

One lecture a week during the first term.

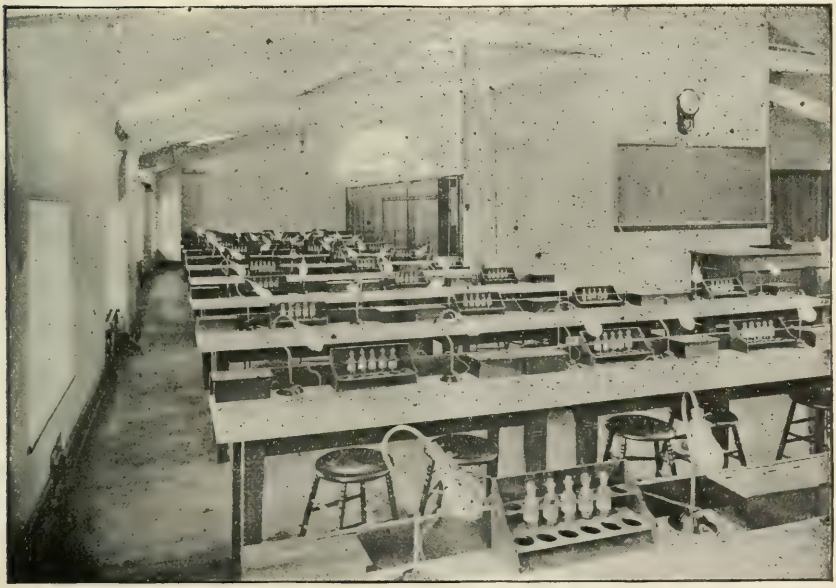
Text-book:—Dawson, Hand-book of Geology.

Books of Reference:—The Reports of the Geological Survey of Canada.

6. Geological Colloquium.—A discussion each week of some Geological topic, references to the literature of which have been given by the Professor in the week preceding. The course is intended to give students some acquaintance with Geological literature, as well as a wider knowledge of the great principles which underlie the Science.

One hour a week in second term.

Botanical Laboratory.



In the Zoological Laboratories.

7 Geological Survey.—Candidates for Honours in the Fourth Year will also undertake, under the direction of the Demonstrator in Geology, a Geological Survey of some suitable area selected for that purpose. This Survey will occupy two weeks, and will be made either at the close of the Third Year or immediately before the opening of the regular work of the Fourth Year, as may be arranged by the Professor of Geology. The preparation of a geological map of the surveyed area, the examination of the specimens collected, and the writing of a detailed report upon the area, will form part of the work of the Fourth Year.

N.B.—A large amount of additional private reading will also be required of Candidates for Honours.

Students taking any of these courses are entitled to tickets of admission to the Museum of the Natural History Society of Montreal.

Course for B.A. Honours in Geology and Mineralogy.

Third Year.—Geology (ordinary of Third Year).
Mineralogy.
Zoology (ordinary of Third Year).
Chemistry (of Second or Third Year).

Fourth Year.—Geology (Advanced)—Lectures, Lab. work, Field work, Colloquium, Reading.
Mineralogy (Advanced).
Botany (ordinary of Third Year).

DEPARTMENT OF BOTANY.

PROFESSOR:—D. P. PENHALLOW, D.Sc.
ASSISTANT PROFESSOR:—C. M. DERICK, M.A.

1. ELEMENTARY BIOLOGY.—Second half session. A course in the general morphology of plants embracing a discussion of the general principles of morphology and classification, respiration, photosynthesis, nutrition, reproduction, symbiosis and adaptations, as also the relations of plants in geological time. These studies will be illustrated by means of special types taken from the principal groups. **Ordinary. Second Year.**

This course is designed with special reference to those who may not be able to carry such work beyond the limits of an

elementary course, where it will form the basis for more specialized work in the Third and Fourth Years.

Two lectures and two laboratory periods each week.

For the first half of this course, see Zoology 1 A, page 126.

Ordinary. Third Year.

2. Special Morphology. This course is designed to give a comprehensive knowledge of plant structures and relationships. The principles of development will be illustrated by type studies which may also serve as the basis of more special work in Bacteriology, Physiology, Ecology, or Palæobotany. It comprises:—

(*a*) *First Half-Session.* During the autumn term, attention will be directed to a study of the general histology of the plant, with special reference to the seed plants and as a basis for the more advanced work of the Fourth Year, to differential reactions, methods of staining, imbedding, section cutting and general technique.

This course will be especially adapted to chemists as applied to a study of food adulterants, etc.; to those who are intending to follow a medical course, as a preparation for animal histology, and it will be required of all who elect the course in the Fourth Year.

The course presupposes familiarity with the optics of the microscope as given in Physics (3) of the Second Year.

(b) *Second Half-Session.*—Critical studies of the Thallophyta by means of selected types designed to illustrate the origin of organs, the origin and development of sex, the division of labour and the general laws of development.

Two lectures and two laboratory periods each week throughout the session.

Ordinary. Fourth Year.

3. Special Morphology.

(*a*) The complete study of a selected series of types, illustrating the structure, origin and relationships of the Bryophytes, and Pteridophytes.

(*b*) The special morphology of the Seed Plants as represented by types illustrative of the principal groups, with special reference to relationship, development and adaptations.

Students entering upon this course will be required to present qualifications equivalent to the course of the Third Year.

Two lectures and two laboratory periods each week throughout the session.

For the work of the Third and Fourth Years, each student will be required to provide himself with a laboratory drawing book of specified form, and with necessary pencils, slides and cover glasses.

4. Systematic Botany.—A practical course embracing herbarium work and the systematic study of the seed plants with reference to the determination of species, their environment and mutual relations. These studies will be prosecuted with special reference to a field knowledge of the ferns and flowering plants in the neighbourhood of Montreal. **Ordinary. Fourth Year.**

This course is designed to complete and round out the study of the higher plants as given in the courses on Special Morphology (2 and 3). Students specializing in Botany will be required to follow this as part of the ordinary course of the Fourth Year. The course is also open to teachers of schools and to others who may have gained a knowledge equivalent to that represented by Gray's Structural Botany.

Two hours laboratory each week throughout the session, with field days as may be arranged for.

B.A. Honour Course in Biology.

5. Candidates for Honours in the Third Year will, in addition to the ordinary work of that year, take a special course of reading under the direction of the professor, and write weekly themes upon assigned topics. **Honours. Third Year.**

6. Candidates for Honours in the Fourth Year will take a course in experimental plant physiology based upon the following works:— **Honours. Fourth Year.**

Pfeffer, Plant Physiology; MacDougall, Experimental Plant Physiology; Darwin and Acton, Practical Physiology of Plants.

Special essay work upon the experiments performed, and upon collateral readings, will be assigned from time to time during the session.

Students will not be permitted to take this course unless they have previously taken the course prescribed for the Second Year.

One lecture and six laboratory hours per week.

B.Sc. Course.

7. Students proceeding to the degree of B.Sc. will be required to take the ordinary course of the Third Year Arts, (2) and also one-half of the Honour course for that year. **Ordinary. Third Year.**

Two lectures and two laboratory periods each week throughout the session.

Fourth Year. During the Fourth Year, students proceeding to the degree of B.Sc. will be required to pursue special studies in extension of the work of the Fourth Year Arts, (3), in accordance with such plan as may be adopted by the B.Sc. Committee at the time of his entrance upon that year.

DEPARTMENT OF ZOOLOGY.

PROFESSOR:—E. W. MACBRIDE, M.A., D.Sc.
LECTURER:—J. STAFFORD, M.A., PH.D.
DEMONSTRATOR:—J. C. SIMPSON.

Ordinary. Second Year. 1 A. ANIMAL BIOLOGY (for Plant Biology, see p. 123).

This course includes a careful study of the laws of Biology, as illustrated by a selected series of types. Special stress is laid on the study of the elements of Vertebrate Anatomy and Physiology, to which the most of the time is devoted. The types studied are Amœba, Paramoecium, Hydra, Lumbricus, Scyllium and Rana. This course together with the corresponding course in Botany, (see p. 123) constitutes the course in General Biology. It can, however, be taken along with 1 B instead of Botany, by students who are taking the combined six-year course in Arts and Medicine leading to the degrees of B.A. and M.D., and of B.Sc. and M.D.

Two lectures and two demonstrations a week during the autumn term.

1 B. CONTINUATION COURSE IN ANIMAL BIOLOGY.—This course comprises a further study of vertebrate anatomy, including a detailed study of the tissues. The type selected is the Rabbit, of which the osteology and gross anatomy are first studied, and then the finer structure of the tissues. The practical work includes instruction in the staining and mounting of sections.

Two lectures and two demonstrations a week during the spring term.

Ordinary. Third or Fourth Year. 2 A. GENERAL ZOOLOGY.—This course consists of a general survey of the principal classes of animals. It is specially suited to the requirements of those who in-

tend to take geology, and the structure of fossil species is studied along with that of their living representatives.

Two lectures and two demonstrations a week throughout the session.

Ordinary. Third or Fourth Year.

2 B. Special Zoology.—This course comprises:—

(*a*) A special study of those groups in the animal kingdom, the members of which are concerned in producing disease.

(*b*) A study of the comparative anatomy of the Vertebrata, with special reference to the osteology.

(*c*) A study of Comparative Embryology, with special reference to the Vertebrata, forming an introduction to Human Embryology.

Two lectures and two demonstrations a week throughout the session.

3. A special course in Embryology, consisting of 8 lectures and 8 periods of laboratory instruction, is given after the conclusion of the regular courses of lectures, during the month of April. Though this course is designed specially for the benefit of medical students it is open to all undergraduates in the Faculty of Arts.

Students are required to have taken 1 A and either 1 B or 2 A before proceeding to 2 B. It is in most cases advisable that 1 A should be taken before proceeding to 2 A; but it is possible for the student, by a certain amount of extra reading and laboratory work, to cover the ground required for 2 A, even if 1 A has not been taken.

For all the courses a study of Shipley and MacBride's Text-book of Zoology is required. For 3 Hasler's Text-book of Embryology is also recommended.

B.A. Honour Course in Biology.

(For the Botanical portion of this course, see p. 125.)

Honours. Third Year.

4. During the Third Year, students pursuing the Honour course in Biology will take the course 2 A, and in addition pursue a course of reading under the direction of the Professor. The Professor will hold a colloquium once a week in order to supervise the studies of honour students.

The books studied during 1904-1905 will be: Darwin, Origin of Species, and Wallace, Island Life.

Honours. Fourth Year.

5. During the Fourth Year, honour students will take courses 1 B and 2 B, and pursue in addition a course of extra reading, supervised, as in the Third Year, by the Professor.

The book studied during 1904-1905 will be: Korschelt & Heider, Vols. I, II and III, in connection with which a certain amount of extra laboratory work will be required.

No student is permitted to attend the lectures without taking the practical work. For use in the laboratory, a special note-book and a set of dissecting instruments are required, and will be supplied to the student, who is required to pay a fee of $2.50 *to cover the cost of these.*

6. B.Sc. Course.—Students proceeding to the degree of B.Sc., will in the Third Year be required to take 2 A., and, in addition, a special course of reading under the supervision of the professor during the spring term. In the Fourth Year they will take 2 B., and, in addition, such extra reading and laboratory work as may be required by the B.Sc. Committee.

Meteorology.

Superintendent of Observatory :—C. H. McLeod, Ma.E.

Instruction in Meteorological Observations will be given in the Observatory at hours to suit the convenience of the senior students.

Certificates will be granted to those students who pass a satisfactory examination on the construction and use of meteorological instruments and on the general facts of Meteorology.

Pedagogy.

Lecturer :—Principal S. P. Robins, M.A., LL.D.

Lectures on this subject will be given in the Normal School to undergraduates of the Third and Fourth Years, who wish to obtain the Provincial Academy Diploma.

Lecture hours, Tuesdays and Fridays, 2 to 3.

Physical Training.

Medical Director of Physical Training :—
R. Tait McKenzie, B.A., M.D.

The classes will meet at the University Gymnasium at hours to be announced at the commencement of the Session. The

Macdonald Physics Building.—Departmental Library.

Macdonald Physics Building.—An Electrical Laboratory.

Wicksteed Silver and Bronze Medals (the gift of Dr. R. J. Wicksteed) are offered for competition to students of the Graduating Class and to students who have had instruction in the Gymnasium for two sessions,—the silver medal to the former, the bronze medal to the latter. (See p. 47.)

X. Laboratories.

The Macdonald Physical Laboratories.

The equipment of the Macdonald Physical Laboratories comprises: (1) apparatus for illustrating lectures; (2) simple forms of the principal instruments for use by the students in practical work (3) the most recent types of all important instruments for exact measurement, to be used in connection with special work and research.

The basement contains the cellars, furnaces, and janitor's apartments at the west end of the building. The machine room—containing a small gas engine and dynamo, which are fitted for testing, but can also be used for light and power, a motor-alternator and a motor-dynamo—is situated at the extreme western corner of the basement so as to be as far removed as possible from the delicate magnetic and electrical instruments. Here is also the switch board for controlling the various circuits for supplying direct or alternating current to different parts of the building. The Accumulator Room contains a few large storage cells, charged by the motor-dynamo, which are fitted with a suitable series-parallel arrangement and with rheostats for obtaining and controlling large currents up to 4,000 amperes for testing ammeters and low resistances, etc.

The Magnetic Laboratory contains magnetic instruments and variometers of different patterns, and also a duplicate of the B. A. Electro-dynamometer, which has been completely remodelled and set up with great care for absolute measurements of current. The Laboratory, on the opposite side of the basement contains a very fine Lorenz apparatus for the absolute measurement of resistance, constructed under the supervision of Prof. Viriamu Jones. It also contains a set of Ewing Seismographs and a pair of Darwin Recording Mirrors for measuring small movements of the soil.

There is a Constant Temperature Room, surrounded by double walls, which contains a Standard Rieffler Clock, and is fitted for comparator work.

The ground floor contains at the western corner a small machine shop, fitted with a milling machine and suitable lathes and tools, driven by electric motors, and such appliances as are required for the making and repairing of the instruments, for which the services of a mechanical assistant are retained. There is also a store room for glass, chemicals and cleaning materials, and extensive lockers and lavatories for the use of the students.

The Main Electrical Laboratory is a room 60 feet by 40, and is fitted with a number of brick piers, which come up through the

floor, and rest on independent foundations, in addition to the usual slate shelves round the walls. This room contains a large number of electrometers, galvanometers, potentiometers and other testing instruments of various patterns, and adapted for different uses. It connects with a smaller room at the side, in which are kept the resistance boxes and standards, and also the capacity standards. A small research laboratory, adjoining the electrical laboratory, is fitted up for the study of electrical discharge in high vacua, and for work with Röntgen and uranium radiation, and with ultra-violet light.

The First Floor contains the Main Lecture Theatre, with seats for about 250 students. The lecture table is supported on separate piers, which are independent of the floor. Complete arrangements are provided for optical projections and illustration. The Preparation Room in the rear contains many of the larger pieces of lecture apparatus, but the majority of the instruments, when not in use, are kept in suitable cases in the adjoining apparatus room. On the same floor there is the Heat Laboratory, devoted to advanced work in Thermometry, Pyrometry and Calorimetry, and also to such electrical work as involves the use of thermostats and the measurement of the effects of temperature. There are also two smaller rooms for Professors and Demonstrators.

The Second Floor is partly occupied by the upper half of the Lecture Theatre. There is also an Examination Room for paper work, a Mathematical Lecture Room, with a special apparatus room devoted to apparatus for illustrating Mathematical Physics, and a special Physical Library chiefly devoted to reference books and periodicals relating to Physics. A store room, lavatories and Professors' Room occupy the remainder of the flat.

The Third Floor contains the Elementary Laboratory, a room 60 feet square, devoted to elementary practical work in Heat, Sound and Electricity and Magnetism. There is a Demonstrator's room adjoining, and an optical annex devoted to experiments with lenses, galvanometers, etc., which require a darkened room. On the other side of the building there is a spectroscopic room, containing a six-inch Rowland grating, with mountings by Brashear, and other large spectrometers and polarimeters. Also a series of smaller optical rooms, including a photometric room, specially fitted for Arc photometry, and a dark room for photographic work. Communication between the different flats is facilitated by means of a hydraulic elevator. The building is lighted throughout by electricity, and heated by hot water. The walls are of pressed brick, and the floors of hard maple. There is a ventilating system, consisting of Tobin tubes and suitable exit flues, assisted by a fan in the roof.

The Macdonald Chemical Laboratories.

The main lecture-theatre, extending through two stories, is entered from the ground floor, and seats nearly 250 students. The lecture-table is supplied with coal-gas, oxygen and hydrogen, electricity, water, vacuum, down-draught, etc., and can be well seen from all parts of the room.

Besides the main lecture-theatre, there are three smaller classrooms, accommodating from 40 to 60 students each.

The three principal laboratories have each a floor-space of about 2,400 square feet, and together have accommodation for nearly two hundred students working at a time. They are lighted on three

sides, and have ample hood space. One is intended for beginners, and the others for more advanced work, more particularly in qualitative and quantitative analysis. In connection with each of the main laboratories is a balance-room, equipped with balances by several of the best makers.

Physical Chemistry is provided for in a special laboratory, nearly 30 by 40 feet, lighted from the north, and supplied with electricity, steam, vacuum pumps, etc. The equipment of this department consists of the apparatus necessary for the determination of the specific gravities of solutions, of the depression of freezing point, and the rise of boiling point, of the densites of gases and vapours. There are constant temperature baths for accurate measurement of solubilities, Kohlrausch's apparatus for determining the electrical conductivity of solutions, and the apparatus necessary for measuring the electro-motive forces generated between metals and their solutions, and in voltaic cells generally. There are also calorimeters for measuring the heat effects produced in chemical reactions. On the same floor there is an optical room furnished with refractometers for measuring the refractive indices of solutions, goniometers, polariscopes and spectroscopes. Other forms of apparatus will be added as required for research work.

Immediately adjoining the laboratory of Physical Chemistry is the Photographic department, supplied with two dark rooms, arranged on the maze system, and supplied with the necessary appliances for all ordinary photographic work, including an enlarging camera, and apparatus for micro-photography.

The laboratory for Gas Analysis has a northern exposure, and is fitted with a large tank to contain water at the temperature of the room, for use in the measurement of gases. The tables are arranged for work with mercury, and the laboratory is supplied with the apparatus of Hempel, Dittmar, Orsat, Elliott, and others. It contains also Fleuss, Boltwood, and Töpler pumps for providing high vacua.

The laboratory for Electrolytic Analysis is supplied with accumulators, thermopile, platinum electrodes, rheostats, ammeters, voltmeters, etc.

Another room has lately been equipped with electric furnaces and other appliances for electro-chemical work.

The Organic Department comprises a laboratory for preparations and research, a combustion room for analysis, a dark room for polariscope and sacharimeter work, and a lecture room. The laboratory is fitted with all the necessary apparatus for organic research—special hoods for work with poisonous gases, regulating ovens for digesting and drying at various temperatures, filter presses for the extraction of raw materials, and various forms of apparatus for distillation in vacuo. The dark room is equipped with polariscopes and saccharimeters for sugar work. There is a large quantity of the necessary organic chemicals, which are supplied free of charge to students engaged in routine or research work in this department.

The laboratory for Determinative Mineralogy has places for 28 students, and is supplied with abundant material for practical work. It adjoins the lecture-room, in which the lectures on advanced mineralogy are delivered. The mineralogical department is also provided with suitable machinery, run by electricity, for cutting and polishing minerals.

The Library contains a valuable collection of the most recent English, French and German books, and sets of various journals and

transactions, including the Berichte der Deutschen Chemischen Gesellschaft, Journal für praktische Chemie, Chemisches Central-blatt, Fresenius' Zeitschrift für Analytische Chemie, Zeitschrift für Anorganische Chemie, Annales de Chimie et de Physique, Journal of the Chemical Society, Journal of Physical Chemistry, American Chemical Journal, Chemical News, Journal of the Society of Chemical Industry, Zeitschrift für physikalische Chemie, Zeitschrift für Elektrochemie, Mineralogische und Petrographische Mittheilungen, etc. The library is open to students under such restrictions as are necessary to prevent damage or loss of books.

The rooms for allied purposes have, as far as possible, been grouped together on the same floor, and there is a hydraulic lift running from the basement to the attic. The offices and principal laboratories and supply rooms are also connected by a system of telephones, The building is practically fire-proof.

Botanical Laboratories.

The Botanical Laboratories occupy the upper floor of the central Arts building.

The laboratory for general Morphology provides table accommodation for twenty students, and is equipped with all the necessary appliances for the practical study of plants, either fresh or dry.

In connection with this laboratory, a large collection of dried plants is maintained, from which material is drawn for practical work.

The laboratories for special Morphology at present afford accommodation for twelve students. Each table is provided with a complete outfit of instruments and reagents. Provision is also made for accurate micrometric work, and for the production of accurate drawings by means of the camera lucida and Leitz's drawing instrument. More special instruments, including polariscope, spectroscope and photographing apparatus, afford opportunity for detailed studies in these several directions.

An investigator's table held by the University at the Biological Laboratory, Wood's Hall, Massachusetts, is available for such students as may sucessfully complete the advanced course of the Third and Fourth Years.

Zoological Laboratories.

The Zoological Department occupies the whole of the uppermost floor of the east wing of McGill College and the larger portion of the floor immediately below.

It consists of:—

(a). A large laboratory affording accommodation for a class of 90 students.

(b). A smaller laboratory capable of seating about 18 students.

(c). Three smaller laboratories fitted up for purposes of research.

(d). A room fitted up for the University Osteologist.

Dissecting trays, simple and compound microscopes, reasonable quantities of the ordinary reagents and of glass are provided by the department, but students must provide themselves with dissecting instruments, and with razors.

The Department is provided with four large tanks and a number of smaller ones in order to maintain a supply of fresh specimens throughout the winter.

The subjects for practical work, are, so far as possible, selected from species inhabiting the vicinity of Montreal.

The laboratories are well provided with thermostats, microtomes, and other instruments required for advanced research. There is also a small library attached to the department.

A complete set of apparatus for microphotographic work has recently been added to the equipment of the laboratory.

Petrographical Laboratory.

The Petrographical Laboratory, containing the chief rock collections of the University, is situated in the Macdonald Chemistry and Mining Building, and is arranged for the use of Honour and Graduate students. It is provided with a number of petrographical microscopes by Seibert and Crouch, as well as with models, sets of thin sections, electro-magnets, heavy solutions, etc., for petrographical work.

For purposes of study and comparison, in connection with advanced work and petrographical investigation, Dr. Adams' extensive private collection of rocks and thin sections is available.

TIME TABLES.—FACULTY OF ARTS.

LECTURES.

First Year—Men.

Hours.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Math.	Math.	French.	Math.	Math.	
10	Latin.	Latin.	Latin.	Latin.	History.	
11	French.	French.	German.	German.	French.	
12	German.	English.	English.	English.	German.	
2	Greek.		Greek.	Greek.	Greek.	
3		Physics.		Physics.		
4						
5						

In case no students wish to take both Greek and German, Greek may, if desired, be taken where German is shown.

First Year—Women.

Hours.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Math.	Latin.	History.	Math.	French.	
10	German.	French.	French.	German.	German.	
11	Latin.	Math.	Math.	Latin.	Latin.	
12	English.	English.	German.	French.	English.	
2		Greek.		Greek.	Greek.	
3	Greek.		Physics.		Physics.	
4						
5						

Second Year—Men.

Hours.	Monday	Tuesday	Wednesday	Thursday.	Friday.	Saturday
9	German. Hebrew.	German. Hebrew.	Latin.	Latin.	German. Hebrew.	Chem. Lab.
10	Latin	English.	French.	German. Hebrew.	Latin.	Chem. Lab.
11	Logic and Psychology.	Chemistry.	Logic and Psychology.	English.	English	Botany Lab.
12	French.	French.	Chemistry.	French.	Chemistry.	Botany Lab.
2	Mathematics.	Mathematics. Biology.	Botany Lab.	Logic and Psychology.	Mathematics. Biology.	
3	Greek.	Greek. Zoology Lab.	Greek. Botany Lab.	Greek.	Zoology Lab.	
4	Chem. Lab.	Zoology Lab.			Zoology Lab.	
5	Chem. Lab.					

Second Year—Women.

Hours.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Logic and Psychology.	Logic and Psychology.	German.	German.	Latin.	Chem. Lab.
10	Latin.	German.	Latin.	Latin.	French.	Chem. Lab.
11	French	Chemistry.	English.	French.	English.	Botany Lab.
12	German.	French.	Chemistry.	English.	Chemistry.	Botany Lab.
2	Mathematics.	Mathematics. Biology.	Greek. Botany Lab.	Greek.	Mathematics. Biology.	
3	Greek. Zool. Lab.	Greek.	Botany Lab.	Zool. Lab.	Logic and Psychology.	
4	Zool. Lab.	Chem. Lab.		Zool. Lab.		
5		Chem. Lab.				

Primary Courses (Third and Fourth Years).

Hours.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Geology. Sanskrit. Mechanics. German.	Chemistry. English. Greek.	Geology. Sanskrit. Astronomy German.	Latin. Hebrew	Psychology. Zoology.	Chem. Lab. Geol. Lab.
10	Botany. History. Mathematics Physics (*B*).	History. Mathematics.	History. Mathematics.	Botany. History. Mathematics. Physics (*B*)	Geology. Sanskrit. Mechanics. German.	Chem. Lab. Geol. Lab.
11	Chemistry. English. Greek.	Latin. Hebrew.	Latin. Hebrew.	Chemistry. English. Greek.	Latin. Hebrew.	Chem. Lab. Geol. Lab.
12	French. Economics. Moral Philos.	French. Economics. Moral Philos. Physics (A)	Eng. Comp. IV.	French. Economics. Moral Philos. Physics (*A*)	French. Economics. Moral Philos	Geol. Lab.
2	Comp. Philol. Polit. Science Zool. Lab. Chem. Lab. Physics Lab.	German. Mechanics. Pedagogy. Sanskrit.	Polit. Science. Zoology.	Comp. Philol. Polit. Science. Physics Lab. Zool. Lab.	Pedagogy Polit. Science.	
3	Psychology. Chem. Lab. Physics Lab. Zool. Lab.	Mathematics. Psychology. Bot. Lab.	Eng. Comp. III. Chem. Lab. 4th year.	Psychology. Physics Lab. Zool. Lab.	English. Greek. Bot. Lab.	
4	Logic & Meta. Roman Law. Chem. Lab.	Logic & Meta. Roman Law. Bot. Lab.	Roman Law. Chem. Lab.	Logic & Meta. Roman Law.	Logic & Meta Cons. Law. Rom. Law (*a*) Bot. Lab.	
5		Const. L. & H. (*a*) Botany Lab.	Chem. Lab.	Const. L. & H. (*a*)	Bot. Lab.	

(*A*) Heat, Light and Sound.

(*B*) Magnetism and Electricity.

(*a*) During Second Term.

N.B.—The term Primary Course denotes the first course taken in the subject subsequent to the Intermediate Examination, whether in the Third or Fourth Year.

Exhibition, Scholarship and Supplemental Examinations, September, 1904.

DATE.	Hour.	Supp. to First Year Sessional.	Second Year Exhibitions.	Supp. to Second Year Sessional.	Scholarships (Third Year).	Supp. to Third Year Sessional.*
Monday. 12	9	English Literature.	English Literature (Shakspere, Johnson).	English Literature (Lectures) Composition.	English Literature (Shakspere and Milton).	English.
	2.30	English History and Composition	English Literature. (Comus) · History.	English Literature. (Books).	English Literature (Chaucer & Lamb).	
Tuesday.....13	9	Latin Books.	Latin Books and Sight Translation.	Latin Books.	Latin Books.	Latin Books.
	2.30	Latin Composition Sight Translation and History.	Latin Composition, Grammar and History.	Latin Composition, Sight Translation, History and Literature.	Latin Composition and Sight Translation.	Latin Composition, Sight Translation, History and Literature.
Wednesday...14	9	French.	French.	French.	French.	French; Botany.
	2.30	German.	German.	German.	French.	German.
Thursday.....15	9	Algebra.	Euel., Alg., Trig.	Algebra.	Chemistry. Analytic Geometry. Ancient History.	Mathematics.
	2.30	Trigonometry.	Geometry.	Trigonometry.	German. Trig. and Alg. Chemistry.	Chemistry.
Friday.....16	9	Greek Books.	Greek Books and Sight Translation.	Greek Books. Logic.	Greek Books; Physics.	Greek Books.
	2.30	Greek Composition, Sight Translation and History.	Greek Composition, Grammar and History.	Greek Composition, Sight Translation, History and Literature.	Greek Composition and Sight Translation.	Greek Composition, Sight Translation, History and Literature.
Saturday ..17	9	Physics.	Theory of Equations.	Mathematics. Biology.	Diff. and Int. Calculus; German.	
	2.30			Chemistry	Modern History; English Composition.	

* Periods for other subjects to be arranged at the time of the Examinations. For Matriculation dates see p. 21.

Christmas Examinations, 1904.

Morning examinations commence at nine; afternoon examinations at two.

Day and Date.	First Year.	Second Year.	Third and Fourth Years *
Thursday, Dec. 15th ...A.M.	Latin.	Latin.	Latin.
" P.M.		Geometry.	Logic.
Friday, Dec. 16th.....A.M.	Greek.	Greek.	Mechanics; Astronomy.
" P.M.		French.	German.
Monday, Dec. 19th.....A.M.	Physics.	Psychology.	Greek; Economics.
" P.M.	French.	Chemistry.	Geology.
Tuesday, Dec. 20th.....A.M.	Geometry.	English.	Moral Philosophy, French
" P.M.	German.	German.	Physics (Third Year).
		Hebrew.	
Wednesday, Dec. 21st..A.M.	English.		Botany, Political Science
" P.M.		Biology.	Zoology.
Thursday, Dec. 22nd . A.M.			Physics (Fourth Year).

* Examination periods will be arranged during the term for those subjects of the Third and Fourth Years which are not named in this Table.

The Christmas Examinations are obligatory on all undergraduates, and on partial students of the First Year, and the standing gained therein will be taken into account by the Faculty at the close of the session. The results will be made known after the Christmas vacation.

Sessional Examinations, 1905.

Morning examinations commence at 9; afternoon examinations at 2.30.

Day and Date.	First Year.	Second Year.	Third and Fourth Years.*
Friday, April 7th.....A.M.			English Composition.
" P.M.			
Saturday, April 8th....A.M.			Physics.
Monday, April 10th... A.M.	Latin.	Latin.	
" P.M.	Latin.	Latin.	
Tuesday, April 11th....A.M.	English.	English.	
" P.M.	English.	English.	Mechanics.
Wednesday, April 12th.A.M.	Algebra.	Chemistry.	Chemistry.
" P.M.	Trigonometry.	Chemistry.	Chemistry.
Thursday, April 13th. A.M.		Mathematics.	Geology.
" P.M.		Mathematics.	Geology.
Friday, April 14th.....A.M.	Greek.	Greek.	
" P.M.	Greek.	Greek.	
Monday, April 17th.....A.M.	French.	French.	
" P.M.	French.	French.	History.
Tuesday, April 18th....A.M.	Physics.	Logic.	Political Science.
" P.M.		Hebrew.	English.
Wednesday, April 19th.A.M.		Botany, Zoology	
" P.M.		Biology.	

* Examination periods will be arranged during the term for those subjects of the Third and Fourth Years which are not named in this Table.

Royal Victoria College.

The institution of the Royal Victoria College, in September, 1899, was a direct continuation of the work begun in 1883, during the Principalship of the late Sir William Dawson, when Lord Strathcona and Mount Royal placed a sum at the disposal of the University of McGill, for the Endowment of a College and classes for women. For many years previously it had been hoped by those interested in the education of women in Montreal that the University would extend its benefits to women, but the means necessary for carrying out such an aim had not been available. The classes were organized in 1884 as a Special Course in the Faculty of Arts, held at McGill College, separate in the main from those for men, but under identical conditions. In some of the work of the Third and Fourth Years, and in the Honour and Additional Courses, the classes were held jointly.

The ultimate aim of Lord Strathcona had been the foundation of a place of residence, and, with this object, he announced his intention of building and endowing the Royal Victoria College. By the opening of this Institution the opportunity of residence and college life is given to women-students of McGill University, working in accordance with the system previously organized in the Special Course in Arts, but under greatly improved conditions. A share in the advantages of college life is offered also to the non-resident women-students of the University, who are henceforth also students of the Royal Victoria College. Additional elements have been added in the organization of a Musical Department, and in the institution of Resident Women Tutors. These additions are in accordance with the general aim of the College; viz., the higher education of women, and mainly to qualify them to take degrees in Arts (including Pure Science), and to provide them with instruction in those branches of a liberal education necessary thereto and in such other subjects as may from time to time be determined.

Royal Victoria College for Women.

The College being a residential College for the Women-Students of McGill University, its students, whether Undergraduates, Conditioned Students, or Partial, follow the courses in Arts and Pure Science offered by the University, (see pp. 62-69).

Lectures are given by the Professors and Lecturers of the University, either in the College or in the University buildings, and students attend the University Laboratories for practical instruction. In addition to the instruction given in lectures and laboratory practice, the students of the Royal Victoria College are assisted in their studies by the Resident Tutors.

The College Building.

The College is situated on Sherbrooke Street, at the head of Union Avenue, in close proximity to the University buildings and to the slopes of Mount Royal. The building is fireproof, and much thought and artistic care have been given to the furnishing and decoration.

On the ground floor are the offices of the Administration, including the rooms of the Warden and Secretary, the Professors' common room, lecture rooms (English, French, German, Mathematics), students' common room and a spacious dining hall. On the first floor are other lecture rooms (Latin, Greek, Logic, and Philosophy), the library, reading-room, and a handsome assembly hall. On the second and third floors are the rooms of the resident students. These are of varying size and plan. Each student has a separate bedroom, and, as a rule, one sitting-room is shared by the occupants of the two or three bedrooms immediately adjoining. The entire use of a sitting-room can be obtained, and there are some rooms which may be used as study-bedrooms. The rooms are completely furnished, and no article of furniture need be brought by the students. No part need be taken by the students in the care of their rooms.

In addition to the lawn at the back of the College, the students are entitled to use, subject to regulations, the grounds of McGill University, with its tennis-courts, skating-rink, etc.

A nucleus of a College Library has been formed with a set of books, comprising the stated books and others referred to in connection with the University curricula, the modern language course being especially well represented. There are

also works of general literature. The Library is a reading-room, and the books are not taken away. The students have access also to the University Lending Library.

Students of Music have the use of a large practising-room, and, at certain hours, of the piano in the common room, as also of the Gymnasium piano.

The Gymnasium, fully equipped in accordance with the requirements of the Swedish system, is in the basement. In connection with the Gymnasium there are bath-rooms and dressing-rooms.

The health of the students is under the charge of a competent physician practising in Montreal, who may be consulted free of charge.

Students of the Royal Victoria College, as students of McGill University, are entitled to the use of the University Library, containing about 101,000 volumes, and the Peter Redpath Museum, containing large collections in Mineralogy, Palæontology, Zoology, Botany, Archæology, and Ethnology, and to work in the Physical, Chemical, Zoological, Botanical and other laboratories and the Botanic Gardens of the University. (For particulars of laboratories, etc., see pp., 129-133).

Board and Residence.

Residence in the College buildings is open to Undergraduates, Conditioned Students, or Partial Students, but the last are not received in residence unless they take courses of study approved by the Faculty of the College. The expense of board and residence ranges from $290 to $440, in addition to the sessional fees for tuition (see p. 31), according to the room or rooms occupied by the students; for a majority of the rooms the expense of board and residence is $290. These charges cover the University Session, 12th September—28th April, and the summer classes, May 1st—15th June. A deduction of $50 is made in the case of students who go out of residence at the end of the University Session.

Applications for admission or further particulars should be addressed to the Warden, Royal Victoria College, Montreal.

Physical Training.

The Gymnasium is in the charge of an Instructor specially appointed for the purpose, whose assistance and services will

be made available to students at such hours as may best suit their convenience. Particular attention is devoted to the application of exercise in cases of physical weakness. All students undergo a physical examination on entering upon the gymnastic course, under the superintendence of Dr. R. Tait McKenzie, Medical Director of Physical Training. Fencing classes and teams of Basket-Ball are formed, and, when weather permits, these and other exercises are practised on the lawn, at the back of the College building. This ground is also provided with lawn-tennis courts.

Exhibitions and Scholarships.

For a statement of the Exhibitions and Scholarships open to Women Students of the University, see pp.50-61.

In addition to these, and further to encourage residence within the College walls of students who might otherwise arrange to board in the city, the Warden and Faculty are empowered to make nominations in any of the four College years to not more than three additional Exhibitions of the value of $100 each.

Music.

Apart from the University Courses, instruction in Music is offered at the College, for which a separate fee is charged. The instruction includes the Pianoforte in all its branches (solo, ensemble playing, concertos, duos for two pianofortes); Singing (voice production, vocalization, sight-singing, ear-tests, solo and part singing); and Lectures on Theory (elements of music, harmony, counterpoint, and history of music). Attendance at certain of these Courses is expected of all students of music.

For the syllabus of the McGill Conservatorium of Music, under the direction of Mr. Charles A. E. Harriss as Director, and Miss Lichtenstein as Head of the Staff, see separate announcement.

For Time Tables of Lectures in Arts see pages 134–136.

Faculty of Applied Science.

FIELD WORK IN SURVEYING WILL BEGIN ON MONDAY, AUGUST 22ND. LECTURES WILL BEGIN ON WEDNESDAY, SEPTEMBER 21ST.

§ 1. General Statement.

The instruction in this Faculty is designed to afford a complete preliminary training, of a practical as well as theoretical nature, in the following:—

I.—ARCHITECTURE.
II.—CHEMISTRY.
III.—CIVIL ENGINEERING AND SURVEYING.
IV.—ELECTRICAL ENGINEERING.
V.—MECHANICAL ENGINEERING.
VI.—METALLURGY.
VII.—MINING ENGINEERING.

TRANSPORTATION.—A course of study in transportation is to be added to the seven existing courses and is especially intended to educate young men who propose to take up Railway Service as a profession. The Canadian Pacific, Grand Trunk and Canada Northern Railways have strongly advocated the project and have shown their practical sympathy by promising liberal annual contributions to enable the University to undertake the work in a thorough manner. Conferences with the same object in view are being held with other great Railways and it is expected that further assistance will be secured.

Students taking this course will be required to specialize along the lines of either civil or mechanical engineering. On graduation they will receive the degree of Bachelor of Science in Civil or Mechanical Engineering and mention will be made of the fact that they have taken the course in Transportation. The work will commence in September 1904. It is expected

Macdonald Engineering Building.

that the Railway Companies will give preference in the matter of employment to graduates in Transportation.

On pages 164 and 165 will be found tables giving details (subject to modification) of the proposed course in transportation.

The degrees conferred by the University upon such undergraduates of the Faculty as fulfill the conditions and pass the examinations hereinafter stated are, in the first instance, "Bachelor of Architecture, (B. Arch.) and Bachelor of Science" (B.Sc.), mention being made in the diploma of the particular Course of study pursued, and, subsequently, the degrees of "Master of Science" (M.Sc.), and "Doctor of Science" (D.Sc.).

The curriculum, as laid down in the following pages, may be changed from time to time as may be deemed advisable by the Faculty, and it is now under contemplation to make important modifications in the several courses. In future, the work of the first two years will be the same for the civil, electrical, metallurgical, mining and transportation courses.

§ II. Matriculation and Admission.

For subjects of matriculation, conditions and fees, see pp. 10–21.

§ III. Examinations and Degrees.

I. For the Degree of Bachelor of Science (B.Sc).

Sessional examinations are held in all the subjects. In addition, there are Christmas examinations in certain of the subjects, and class examinations are held from time to time.

By a resolution of the Institution of Civil Engineers (England) the holders of this degree, in the courses of civil, electrical, mechanical, and mining engineering, and transportation, are exempted from the examination for associate membership (A. M. Inst. C. E.), of the Institution.

II. Higher Degrees.

For regulations relating to the degrees of "Master of Science" (M.Sc.), and "Doctor of Science" (D.Sc.), see pp. 26 and 27.

III. Special Provisions for Obtaining the two Degrees of "Bachelor of Arts (B.A.) and Bachelor of Science (B.Sc.) in Six Years.

For particulars, see p. 71.

§ IV. Graduate Courses.

Students who take the Bachelor's degree in one of the courses provided by the Faculty of Applied Science may graduate in any of the remaining courses by attending one or more subsequent sessions.

Graduates may also take an advanced course in the branch in which they have received their degree. On passing an examination at the end of such advanced course, the Master's degree will be conferred without further examination, on presentation at the end of one additional year, of a satisfactory thesis on approved work.

Students are strongly recommended to take a graduate course, and special arrangements will be made for advanced and research work in the following:—

Architecture.—Advanced study in design.

The elasticity and strength of materials. (See § XI, 3, and § XII, 13.

Mining and Metallurgy.—Advanced study in metallurgy and mining can be carried on with great advantage in the laboratories. (See § XI, 11, 13, and § XII, 9 and 10.)

The efficiency of pumps and hydraulic motors. (See § XI, 3, and § XII, 7.)

Ore dressing, coal washing, and gold and silver milling. The laboratories of the Mining department have been equipped and arranged with especial reference to advanced and research work in the theory and practice of concentration. (See p. 206.)

The efficiency of power transmission by air, water, gas, and steam. (See § XI, 3, 5, 10.)

The efficiency of steam, gas and hot-air engines and of air compressors. (See § XI, 10 and 16.)

The efficiency of machines and machine tools, and the power absorbed by the several processes of mechanical work. (See § XI, 10.)

The efficiency of dynamometers, belting and shafting, including investigations into the relative merits of the several unguents. (See § XII, 8.)

The efficiency of the several types of boilers, including investigations on the heat-producing power of fuels. (See § XI, 16.)

The flow of water through orifices and pipes, and over weirs. (See § XI, 3, and § XII, 7.)

Geodesy and practical astronomy. (See § XII, 6.)

Physics.—The Macdonald Physics Building has been equipped and arranged with special reference to graduate courses and original research work in various branches of pure Physics. Every facility will be afforded in the workshops for the construction of special apparatus required for such investigations. (See § XII, 12.)

Mathematics.—Students taking graduate courses will receive guidance in any advanced mathematics required in connection with their work.

Chemistry and Mineralogy. (See § XI, 2, 8 and 13, and § XII, 4.)

The determination and comparison of the errors and the coefficients of standards of length. (See § XI, 15, and § XII, 6.)

The determination of gravity. (See § XII, 6.).

§ V. Attendance and Conduct.

See page 38.

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§ VI. Library.

Students in this Faculty are entitled to use the University Library in accordance with the regulations cited under the head "University Library" (post). They also have access to the various departmental libraries under the special regulations by which each is governed.

§VII. Fees and Registration.

See pp. 29 and 32.

VIII. Medals, Exhibitions, Prizes and Honours.

1. The British Association Medals and Exhibition, founded by the British Association for the Advancement of Science, in commemoration of the meeting held in Montreal in the year 1884.

A British Asociation medal and prize in books are open for competition to students of the graduating class in each of the seven courses, and, if the examiners so recommend, will be awarded to the student taking the highest position in the final examinations.

2. The Governor General's silver medal (the gift of His Excellency The Right Honourable the Earl of Minto).

This medal will be awarded for graduate research work.

3. Summer Work. (See § IX, 1.) The following prizes are offered for the best summer theses:—

To the students of the Civil Engineering Course, a prize of $25 presented by E. B. Greenshields, Esq., B.A.

To the students of the Electrical Engineering Course, a prize of $25 from the British Association fund.

To the students of the Mechanical Engineering Course, a prize of $25 presented by the Crosby Steam Gauge & Valve Co.

To the students of the Mining Engineering Course, a prize of $25 presented by Geo. E. Drummond, Esq.

Four prizes, each of the value of $25, are offered for competition to student members of the Canadian Society of Civil Engineers, for the best papers on subjects in any department of engineering. The summer theses prepared by students of this University are available for this competition.

4. A gold medal and two prizes of $35 and $15, offered by the Canadian Mining Institute, will be open for competition to students from McGill University, Toronto University and Queen's University, and will be awarded to the students presenting the best papers on some subject connected with mining, ore dresing, metallurgy, or economic geology. Preference will be given to those theses which show decided originality.

5. The following Exhibitions and Prizes will be open for competition at the beginning of the session:—(*Students are required to notify the Dean of their intention to compete, at least one week before the commencement of the Examination.*)

(A) A British Association Exhibition of $50.00 and prize of $25.00, to students entering the fourth year, the subjects of examination being the Mathematics and Theory of Structures of the ordinary course.

(B) Three prizes of $25.00, $15.00 and $10.00, to students entering the third year, the subject of examination being the Mathematics of the second year.

(C) A Scott Exhibition of $50.00, founded by the Caledonian Society of Montreal, in commemoration of the Centenary of Sir Walter Scott, and two prizes of $25.00 and $15.00, to students entering the second year, the subjects of examination being:—

(*a*) English Literature (Summer Vacation Work); (*b*) (Mathematics of the first year; (*c*) Descriptive Geometry of the first year.

(D) Two prizes, each of $10.00, presented by J. M. McCarthy, Esq., B.A.Sc., to students entering the third year, for proficiency in Levelling or Transit Work.

6. The sum of $150, presented by W. A. Carlyle, Esq., Ma.E., may be awarded in prizes to students of the Mining Course taking the highest positions in the degree examinations of 1905.

7. A prize of $50.00, presented by James Tighe, B.A.Sc., for research work in Hydraulics.

8. An exhibition offered to graduates by A. E. Childs, M.Sc., for a special research on "The flow of gas through pipes under pressure."

9. It is proposed to offer in September, 1904, a Research Scholarship in Chemistry, on the endowment of the late Dr. T. Sterry Hunt, to graduate students in this Faculty or the Faculty of Arts.

10. The Canadian General Electric Company, through Mr. F. Nicholls, of Toronto, has decided to present annually to the Faculty four scholarships, each in the form of a three months' course at the Company's works at Peterboro or Montreal, with the addition of the sum of $100.00.

11. The Allis-Chalmers Company of Chicago has decided to present annually to the Faculty a scholarship in the form of a three or four months' course at the Company's works at Chicago, with the addition of a sum of $150.00.

12. A scholarship of the value of $75.00 has been offered by Mr. Andrew T. Taylor, F.R.I.B.A., for competition by undergraduate students during the Second Year of the Architectural course.

The basis of the award will be the average of marks obtained in all examinations and the drawings, architectural, constructional and freehand, done throughout the session, the progress of the student as well as his proficiency being taken into account.

The award will be made in May, 1905, (but unless a good standard of work is obtained, the scholarship will lapse till the next year) and the money will be paid over during the course of the following session.

13. The Province of Quebec Association of Architects offers a scholarship covering the fees of a full course in Architecture, to be open for competition to students from the Province of Quebec. Particulars may be obtained from the Assistant Secretary of the Association, 112 Mansfield Street, Montreal.

14. Prizes or Certificates of Merit are given to such students as take the highest place in the sessional and degree examinations.

15. Bursaries.—The generosity of graduates and others has enabled the University to offer a number of bursaries in aid of deserving students in narrow circumstances, who have shown a satisfactory degree of proficiency in the Matriculation Examination for Applied Science.

The application for one of these bursaries must be addressed to the Dean of the Faculty of Applied Science, and must state particularly the circumstances of the case, with the reasons for asking aid.

No application will be considered before the 1st August, 1904.

16. Honours.—On graduation, Honours will be awarded for advanced work in professional subjects.

17. Science Scholarships granted by the Royal Commission for the Exhibition of 1851.—The Scholarships of £150 sterling a year are tenable for two or, in rare instances, three years. They are limited, according to the Report of the Commission, "to those branches of Science such as Physics, Mechanics and Chemistry, the extension of which is specially im-

portant for our national industries." Their object is not to facilitate ordinary collegiate studies, but "to enable students to continue the prosecution of Science with the view of aiding in its advance or in its application to the industries of the country."

It is open to students of not less than three years' standing in the Faculties of Arts or Applied Science, and is tenable at any university or at any other institution approved by the Commission.

A nomination to one of these scholarships for the year 1903 was placed by the Commission at the disposal of McGill University, and another may be granted in 1905.

This Exhibition has been awarded as follows:—

Evans, P.N., 1891; Macphail, J. A., 1893; King, R. O. 1895; Gill, J. L. W., 1897; McLean, W. B., 1899; McClung, R. K., 1901; Cooke, H. Lester, 1903.

18. Workshop Prizes.—A prize of $20.00, presented by C. J. Fleet, Esq., B.A., B.C.L., for bench and lathe work in the woodworking department, open to students of not more than two terms' standing in workshop practice.

§ IX. Special Provisions.

1. Summer Work.—During the summer vacation following the close of each year, all students entering the third and fourth years are required to prepare a thesis on a subject specified by the Faculty. Any student may substitute for the specified subject a report on some practical work in course of construction. The marks given for these theses are added to the results of the sessional examinations, but no credit will be given for any report handed in after October 1st.

2. All students in the Civil and Mining Engineering Courses, entering the second and third years, students in the Civil Engineering Course entering the fourth year, and students in the Architectural Course entering the third and fourth years, are required to be in attendance at the Surveying School on the 22nd August, when the Field-work in Surveying and Geodesy will commence. (See § XI, 15.)

3. All students in the Mining and Metallurgical Courses are required to attend the Summer School in Mining, held between the third and fourth years (four to six weeks of field-work). The school is held in May and June. (See § XI, 13.)

4. Partial Students may be admitted to the professional classes upon payment of special fees. (See p. 32.)

5. Students in Applied Science may, by permission of the Faculty, take the Honour Courses in the Faculty of Arts.

6. Undergraduates in Arts of the second and third years, or graduates of any university, entering the Faculty of Applied Science, may, at the discretion of the professors, be exempted from such lectures in that Faculty as they have previously attended as students in Arts.

7. Students who have failed in an examination may regain their standing by passing a supplemental examination at a time appointed by the Faculty. Unless such supplemental examination is passed, students will not be allowed to proceed to any subsequent examination in the subject. A second supplemental examination will not be granted unless under exceptional circumstances, to be investigated in each case by the Faculty.

8. Students may be required to answer satisfactorily a weekly paper on such subjects of the course as the Faculty may determine.

9. Credit will be given in the sessional standing for class examinations held during the session, and for the Christmas examinations.

10. Students who fail to obtain their session, and who in consequence repeat a year, will not be exempted from examination in any of those subjects in which they may have previously passed, except by the express permission of the Faculty. Application for such exemption must be made at the commencement of the session.

11. Partial Students are not eligible for prizes.

12. Admission of Women. — The conditions upon which women are admitted into any of the courses in the Faculty of Applied Science may be obtained on application to the Dean.

13. Certificates may be given to students who have passed through any of the special courses attached to the curriculum.

14. The headquarters of the Canadian Society of Civil Engineers are located in Montreal. Students in all departments of engineering are strongly recommended to become student members of the Society, which they can do on payment of a fee of $2.00. They are then entitled to the two volumes of "Transactions," which are annually published, and to the use

Freehand Drawing Room, Architectural Department.

of the Society's rooms on Dorchester Street. They also have opportunities of meeting the prominent engineers of the country and of being present at the fortnightly sessions, at which papers are read by leading members of the Society on current engineering subjects and works of construction.

During the winter there will be a special series of students' meetings, at which papers, illustrated by lantern slides, will be read by well-known engineers. Students may also compete for the prizes which are offered by the Society. (see p. 148).

15. The headquarters of the Canadian Mining Institute are in Ottawa. Students in Mining and Metallurgy are strongly recommended to become members of the McGill Mining Society, which, although a student body (see p. 192), is affiliated with the Institute. Members of this Society receive the Transactions of the Institute without extra expense, and are entitled to attend all meetings and to compete for the prizes offered (see p. 148).

X. Courses of Instruction.

I. Architecture.

The Architectural Course, qualifying for the degree of Bachelor of Architecture (B.Arch.), differs from the others in the Faculty of Applied Science in that the curriculum is from the First Year separate and distinct, the studies in that Year being divided between the Faculties of Arts and Applied Science.

In the Second Year the Architectural studies proper commence and the amount of time devoted to design increases in the Third and again in the Fourth Years.

Broadly, the lectures may be divided into five groups dealing respectively with History, Structure, Theory of Design, Ornament and Decoration, and Professional Matters, and in all courses studio work goes hand in hand with oral teaching, thus ensuring a thoroughly practical acquaintance with the subjects taken up, while at the same time affording abundant opportunity for the acquisition of power in draughtsmanship and practice in Design, this latter being the chief aim of the course.

The degree of B.Sc. in Architectural Engineering is provided for in an alternative course. In this case, the first two years are taken with the Civil Engineering students and Theory of Structures is included in the work of the latter years.

The Arts matriculation (somewhat modified) will be taken by those studying for the degree of B.Arch., while the Applied Science matriculation will be taken by those studying for the B. Sc. degree.

The lecture hours in the Third and Fourth Years are, as far as possible, from 9 to 10 in the morning, to enable Partial Students working in offices to avail themselves of the instruction. Such lectures will be found valuable for those studying for the R.I.B.A. and the P.Q.A.A. examinations.

The subjects of instruction and the number of hours per week devoted to each are as follows:—

Degree of Bachelor of Architecture.

First Year.

	Hrs.		Hrs.
English	3	Architectural Drawing	4
French	4	Descriptive Geometry	3
History	1	Freehand Drawing	3
Mathematics	4	Shopwork	3
Physics	2	Lettering	1
Physics Lab.	4		

Second Year.

	Hrs.		Hrs.
Mathematics	3	Building Construction	1
History of Architecture	1	Detailing	3
Reference	4	Surveying	2
Archt. Drawing, Historical	4	Mapping	3
Theory and Evolution of Architecture	1	Freehand Drawing	4
Design	5	Descriptive Geometry	2
		Modelling	2

Third Year.

	Hrs.		Hrs.
History of Architecture	1	Sanitation and Heating	1
Reference	3	Drain Plans and Heating Systems	3
Archt. Drawing, Historical	4	Structural Engineering	1
Building Trades	1	Structural Eng. Details	3
Working Drawings	3	Architectural Design	9
Descriptive Geometry	1	Freehand Drawing	3
Perspective	3	Modelling	3

Fourth Year.—First Term.

	Hrs.		Hrs.
History of Architecture	1	Specifications	1
Reference	3	Structural Design	6
Archt. Drawing, Historical	4	Modelling	3
Planning	1	Freehand Drawing	3
Architectural Design	10	Pen and Ink	3
Ornament	1		
Color Decoration	3		

Second Term.

	Hrs.		Hrs.
History of Architecture	1	Ornament	1
Reference	3	Color Decoration	3
Archt. Drawing, Historical	4	Professional Practice	1
Planning	1	Structural Design	3
Archt. Design	19		

Degree of Bachelor of Science (Architectural Engineering).

First Year.

	Hrs.		Hrs.
Descriptive Geometry	4	Mathematics	10
English	2	Physics	2
Freehand Drawing	3	Physical Laboratory	1½
Lettering	3	Shopwork	7

Second Year.

	Hrs.		Hrs.
Chemical Laboratory	4	Mechanical Drawing	3
Chemistry	3	Physical Laboratory	3
Kinematics	3	Physics	
Mapping	3	Shopwork	3
Materials	1	Surveying	2
Mathematics	6		

Third Year.—First Term.

	Hrs.		Hrs.
History of Architecture	1	Structural Engineering	1
Reference	3	Structural Eng. Details	3
Archt. Drawing, Historical	4	Theory of Structures	3
Building Construction	1	Graphical Statics	2
Detailing	3	Testing Laboratory	3
Descriptive Geometry	1	Architectural Design	6
Perspective	3		
Sanitation and Heating	1		
Drain Plans and Heating Systems	3		

FOURTH YEAR.

	Hrs.		Hrs.
History of Architecture	1	Ornament	1
Reference	3	Specifications and Professional Practice	1
Archit. Drawing, Historical	4	Structural Design	18
Planning	1		
Architectural Design	10		

II. Chemistry.

The course in Chemistry is arranged to give the student in the first two years a thorough knowledge of the fundamental principles of Chemistry and Physics, with sufficient Mathematics to enable him to understand the theoretical parts of these subjects.

In the two subsequent years Chemistry, analytical, organic, and physical, is taught both in its purely scientific aspects and in its relations to all kinds of commercial work. Special facilities are afforded for the prosecution of post-graduate research work in all the branches of Chemistry.

The subjects of instruction and the number of hours per week devoted to each subject are as follows:—

FIRST YEAR.

	Hrs.		Hrs.
Descriptive Geometry (p. 176),	4	Mathematics, 1, 2, 3, 8 (p. 182),	10
English (p. 179),	2	Physics (p. 193),	2
Freehand Drawing (p. 180),	3	Physical Laboratory (p. 193),	4½
Lettering (p. 180),	3	Shopwork (p. 212),	7

SECOND YEAR.

	Hrs.		Hrs
Chemistry (p. 171),	3	Chemical Laboratory (p. 171),	17
Mathematics, 4, 5, 9 (p. 182),	6	Physical Laboratory (p. 193),	3
Physics (p. 193),	2		

THIRD YEAR.

	Hrs.		Hrs.
Chemistry (p. 171),	3	Mineralogy (p. 188),	2
Determinative Mineralogy (p. 188),	3	Ore-Dressing (p. 189),	1
Geology (p. 181),	3	Chemical Laboratory (p. 171),	18
Metallurgy (p. 186),	1		

FOURTH YEAR.

	Hrs.		Hrs.
Chemistry (p. 172),	4	Chemical Laboratory (p. 172),	29
Mineralogy (p. 189),	2 (a)		

III. Civil Engineering.

The courses of study in Civil Engineering are designed to give to the student a sound theoretical and practical training in the sciences and principles which underlie the profession of a civil engineer. It is scarcely possible for any one person to become proficient in all branches of civil engineering, so wide is its scope and so inclusive is its purpose. As generally defined it is the "art of economically directing the great sources of power in nature to the use and convenience of man," by the construction of roads, railways, bridges, aqueducts, viaducts, canals, docks, harbours, breakwaters, light-houses, by the construction and adaptation of machinery, by the lighting and draining of cities and towns, and by the exploitation of mines. All these works are more or less governed by the same principles, and in these principles the student is carefully instructed, and by means of numerous problems occurring in every day practice, he is taught to apply his knowledge to the actual conditions of life.

During the session arrangements are made for the delivery, by distinguished engineers, of special lectures or short courses of lectures on actual works of construction.

Provision is made, by means of advanced classes, for graduates and special students to continue their studies and to engage in researches with a view to the solving of some of the numberless problems which confront the engineer in every direction. Much valuable work of this character has been already accomplished, and especial reference may be made to the fact that for several years graduates of other universities—some holding scholarships under the Royal Commissioners for the Exhibition of 1851—have carried out investigations in the several laboratories.

The subjects of instruction and the number of hours per week devoted to each subject are as follows:—

First Year.

	Hrs.		Hrs.
Descriptive Geometry..(p. 176),	4	Mathematics, 1. 2, 3, 8.(p. 182),	10
English .....(p. 179),	2	Physics .....(p. 193),	2
Freehand Drawing.....(p. 180),	3	Physical Laboratory..(p. 193),	4½
Lettering .....(p. 180),	3	Shopwork ..... (p. 212),	7

SECOND YEAR.

	Hrs.		Hrs.
Building Construction	(p. 169), 1	Physics	(p. 193), 2
Chemistry	(p. 171), 3	Surveying	(p. 195), 3
Descriptive Geometry	(p. 176), 3	Chemical Laboratory	(p. 171), 3
Mapping	(p. 196), 6	Physical Laboratory	(p. 193), 3
Mathematics, 4, 5, 9	(p. 182), 6	Shopwork	(p. 212), 4

THIRD YEAR.

	Hrs.		Hrs.
Descriptive Geometry	(p. 176), 4	Railway Structures	(p. 198), 3 (b)
Geology	(p. 186), 3	Roads and Canals	(p. 198), 2
Geological Excursion	(p. 181), 3 (c)	Structural Engineering	(p. 169), 2
Graphical Statics	(p. 173), 2 (a), 3 (b)	Surveying	(p. 196), 2
Mapping	(p. 196), 6	Theory of Structures	(p. 173), 3
Mathematics, 6 7, 10	(p. 182), 2	Thermodynamics	(p. 199), 1
Mechanical Drawing	(p. 184), 3 (opt.)	Testing Laboratory	(p. 174), 3
Municipal Engineering	(p. 175), 1	Thermodynamic Lab.	(p. 210), 2 (b)
Museum Work in Geology	(p. 181), 1 (d), 2(b)		

FOURTH YEAR.

	Hrs.		Hrs.
Designing	(p. 184), 6	Railway Engineering	(p. 198), 2
Geodesy	(p. 195), 2	Structural Engineering	(p. 169), 2
Graphical Statics	(p. 173), 3	Theory of Structures	(p. 173), 4
Hydraulics	(p. 174), 2	Geodetic Laboratory	(p. 197), 4
Mechanical Engineering	(p. 184), 2 (a)	Hydraulic Laboratory	(p. 175), 3 (a)
Municipal Engineering	(p. 175), 1	Testing Laboratory	(p. 174), 6

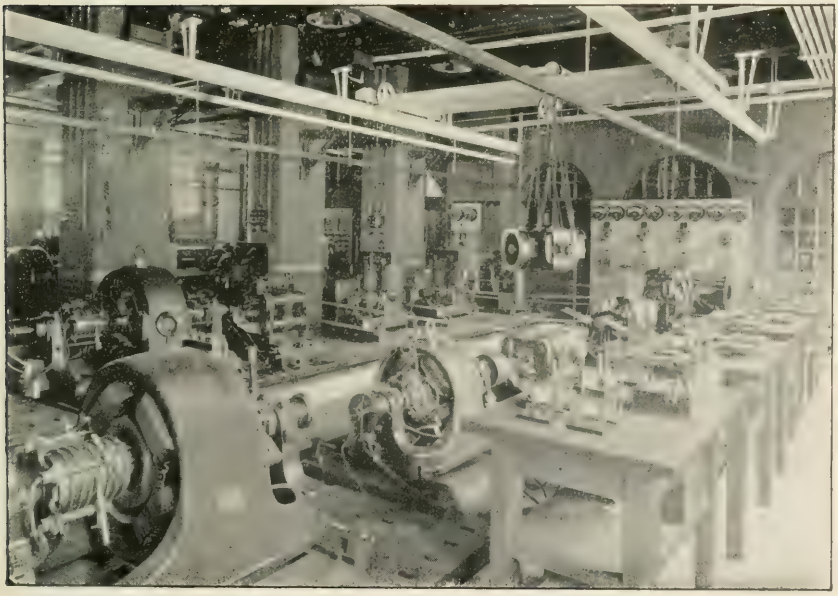
IV. Electrical Engineering.

The first and second years of the undergraduate course of instruction in Electrical Engineering, are devoted, mainly, to a preparation in Mathematics, Physics, Chemistry, Mechanics, Drawing, Shopwork and work in the physical and chemical Laboratories.

The electrical studies of the third year embrace a consideration of continuous current flow, in circuits of different kinds, the principles of electro-magnetism, electrical measurements and the design and action of commutating machinery.

The fourth year is devoted principally to electrical work, and includes lectures and recitations on variable and alternating current phenomena, the principles of action and the design of alternating current machinery, electric lighting and

An Electrical Engineering Research Laboratory



Direct Current Dynamo Laboratory.

systems of power distribution, central station design and operations, urban and inter-urban railways and long distance power transmission.

In the second term of the fourth year a choice may be made between electro-chemistry and hydraulics. Each fourth year student is required to present a thesis giving the results of a suitable experimental investigation.

The subjects of instruction and the number of hours per week devoted to each subject are as follows:—

First Year.

	Hrs.		Hrs.
Descriptive Geometry...(p. 176),	4	Mathematics, 1, 2, 3, 8...(p. 182),	10
English.....(p. 179),	2	Physics.....(p. 193),	2
Freehand Drawing.....(p. 180),	3	Physical Laboratory.....(p. 193),	4½
Lettering.....(p. 180),	3	Shopwork.....(p. 212),	7

Second Year.

	Hrs.		Hrs.
Chemistry.....(p. 171),	3	Physics.....(p. 193),	3
Descriptive Geometry....(p. 176),	3	Chemical Laboratory.....(p. 171),	6
Kinematics of Machines..(p. 184),	3	Physical Laboratory.....(p. 193),	6
Mathematics, 4, 5, 9.....(p. 182),	6	Shopwork.....(p. 212),	6
Mechanical Drawing.....(p. 184),	3		

Third Year.

	Hrs.		Hrs
Chemistry.....(p. 171),	1	Physics.....(p. 193),	2
Continuous Currents and Commutating Machinery.....(p. 177),	2	Theory of Structures..(p. 173),	3
Machine Design.....(p. 184),	2	Chemical Laboratory..(p. 171),	3
Mathematics, 6, 7, 10.....(p. 182),	2	Elect. Eng. Laboratory(p. 178),	6
Mechanical Drawing.....(p. 184),	3	Physical Laboratory...(p. 193),	6
		Civ. Eng. Laboratory..(p. 173),	3 (b)

Fourth Year.

	Hrs.		Hrs.
Alternating currents and Alternating current machinery.....(p. 177),	3	Machine Design.....(p. 184),	2 (a)
Electro-Chemistry....(p 172),	1 (b)	Mechanical Engineering.....(p. 185),	2 (a)
Electrical Designing..(p. 178),	4	Thermodynamics.....(p. 199),	2
Electric Lighting and Power Distribution.(p. 177),	3 (a)	Civ. Eng. Laboratory..(p. 173),	3 (a)
Electric Traction.....(p. 177),	3 (b)	Electro-Chemical Lab.(p. 172),	3 (b)
Hydraulics.....(p. 174),	2	Electrical Engineering Lab.....(p. 178),	9
		Mech. Eng. Laboratory(p. 185),	3

V. Mechanical Engineering.

The complete undergraduate course in Mechanical Engineering extends over four years, and provision is made for a fifth year or graduate course in advanced experimental and other work.

The first two years of the undergraduate course of instruction are largely occupied in preparation in Mathematics, Physics, Chemistry, Mechanics, Drawing, and Shopwork. During the second year one lecture and one exercise class per week are devoted to the Kinematics of Machines.

While motion without regard to force is treated in the Kinematic course, the action of external forces in producing or changing motion in the links of mechanisms is considered in the third and fourth years, under the head of Dynamics of Machines. Two lectures per week are given in this subject in each year, and exercise classes are held for the purpose of working the problems necessary for illustration.

The work in Machine Design is carried on during the third and fourth years in conjunction with the practical instruction in mechanical designing and drawing in the Drawing Rooms.

A course of two lectures per week is given during the fourth year on Mechanical Engineering as applied to questions connected with Power Installations and Prime Movers. A large portion of the work of this course is supplementary to, and follows, the instruction given in Thermodynamics and Machine Design, which extends over the third and fourth years. (See pp. 184 and 199).

Instruction in Workshop Practice (see p. 212) is given in each of the four years. It is of a systematic nature, and is intended to prepare for, but by no means to replace, that practical experience of workshop operations on a commercial basis which every mechanical engineer must obtain for himself.

The work of the lecture rooms is illustrated throughout the course by experimental work carried out by the student, and by demonstrations in the laboratories of the department.

Arrangements are made for occasional visits to power plants and manufactories of importance.

The subjects of instruction and the number of hours per week devoted to each subject are as follows:—

FIRST YEAR.

	Hrs.		Hrs.
Descriptive Geometry...(p. 176),	4	Mathematics, 1, 3, 3, 8...(p. 182),	10
English .....(p. 179),	2	Physics.....(p. 193),	2
Freehand Drawing.....(p. 180),	3	Physical Laboratory....(p. 193),	4½
Lettering .....(p. 180),	3	Shopwork .....(p. 212),	7

SECOND YEAR.

	Hrs.		Hrs.
Chemistry.....(p. 171),	3	Physics.....(p. 193),	2
Descriptive Geometry....(p. 176),	3	Chemical Laboratory.....(p. 171),	2
Kinematics of Machines.(p. 184),	3	Physical Laboratory..... (p. 193),	
Mathematics, 4, 5, 9.....(p. 182),	6	Shopwork .....(p. 212),	
Mechanical Drawing. ...(p. 184),	6		

THIRD YEAR.

	Hrs.		Hrs.
Dynamics of Machines.(p. 184),	2	Thermodynamics .....(p. 199),	2
Continuous Currents and Commutating Machinery .....(p. 177),	2	Theory of Structures..(p. 173),	3
Graphical Statics.....(p. 173),	2 (a)	Elect. Eng. Laboratory(p. 178),	3
Machine Design.....(p. 184),	2	Testing Laboratory...(p. 174),	3
Mathematics, 6, 7, 10..(p. 182),	2	Mech. Eng. Laboratory(p. 185),	3
Mechanical Drawing..(p. 184),	6	Shopwork..... (p. 212),	6
		Physical Laboratory..(p. 193),	3

FOURTH YEAR.

	Hrs.		Hrs.
Designing .....(p. 184),	6	Mechanical Engineering.....(p. 185),	2
Dynamics of Machines... (p. 184),	5 (a), 2 (b)	Thermodynamics .....(p. 199),	4
Hydraulics and Hydraulic Machinery ....(p. 174),	2	Hydraulic Laboratory.(p. 175),	3 (b)
Machine Design.....(p. 184),	2	Mech. Eng. Lab. ..... (p. 185),	12
		Shopwork ..... (p. 212),	4

VI. Metallurgy.

The successful guidance of metallurgical industry requires, apart from considerations of business training and aptitude, an adequate knowledge of certain branches of Chemistry and Engineering as well as a familiarity with Metallurgy proper.

In arranging the following course special prominence has been given to the chemical group of studies, so as to adapt it to the needs of students who intend to become metallurgical chemists. The Faculty has under consideration an alternative course in which more time will be given to Mechanical and Electrical Engineering.

In the first two years the studies are the same as in the course in Chemistry, with the addition of Mechanical Drawing and Shopwork.

In the third and fourth years thorough instruction is given in Metallurgy, Assaying, Ore-dressing, Inorganic Chemistry, Geology and Mineralogy. In the fourth year nearly two days per week are spent in the Metallurgical and Ore-dressing laboratories and drawing room.

The subjects of instruction and the number of hours per week devoted to each subject are as follows:—

First Year.

	Hrs		Hrs.
Descriptive Geometry	(p. 176), 4	Mathematics, 1, 2, 3, 8	(p. 182), 10
English	(p. 179), 2	Physics	(p. 193), 2
Freehand Drawing	(p. 180), 3	Physical Laboratory	(p. 193), 4½
Lettering	(p. 180), 3	Shopwork	(p. 212), 7

Second Year.

	Hrs.		Hrs.
Chemistry	(p. 171), 3	Mechanical Drawing	(p. 184), 3
Descriptive Geometry	(p. 176), 3	Chemical Laboratory	(p. 171), 12
Mathematics, 4, 5, 9	(p. 182), 6	Physical Laboratory	(p. 193), 3
Physics	(p. 193), 2	Shopwork	(p. 212), 4

Third Year.

	Hrs.		Hrs.
Chemistry	(p. 171), 3	Assaying Laboratory	(p. 186), 4 (b)
Geology	(p. 181), 3	Chemical Laboratory	(p. 171), 17 (a), 8 (b)
Geological Excursions	(p. 181), 4 (c)	Determinative Mineralogy	(p. 188), 3
Geological Museum	(p. 181), 1 (d), 2 (b)	Ore-Dressing Lab	(p. 191), 2 (b)
Mechanical Drawing	(p. 184), 3	Testing Lab	(p. 174), 3 (d), 3 (b)
Metallurgy	(p. 186), 2 (a), 1 (b)		
Mineralogy	(p. 188), 2		
Ore-Dressing	(p. 189), 2 (b)		

FOURTH YEAR.

	Hrs.
Chemistry (p. 171)	2
Designing (p. 184)	3 (b)
Geology (p. 181)	1 (a)
Mechanical Engineering (p. 175)	2 (a)
Metallurgy (p. 186)	3 (a), 8 (b)
Metallurgical Colloquium (p. 187)	1
Mineralogy (p. 189)	2 (a)
Mining and Metallurgical Machinery (p. 189)	2 (a), 1 (b)
Ore Deposits (p. 181)	3 (b)
Ore-Dressing and Milling (p. 190)	2 (a)
Chemical Laboratory (p. 171)	12 (a), 6 (b)
Metallurgical Laboratory (p. 187)	5 (a) 11 (b)
Ore-Dressing Laboratory (p. 191)	5 (a)
Petrography (p. 181)	1 (a)
Petrographical Lab. (p. 182)	3 (b)

VII. Mining Engineering.

I. The first two years of the undergraduate course in Mining Engineering are mainly devoted to Mathematics, Mechanics, Physics, Elementary Chemistry, etc., as it is deemed necessary that the students should master the general principles underlying all scientific work before they attack the somewhat complex and specialized subjects of the professional course.

In the third year elementary courses in both Mining and Metallurgy are given, and a thorough course in Fire Assaying, but again the chief work of the year is in Applied Mechanics, Mechanical Engineering, Geology, Mineralogy and Chemistry.

The fourth year, on the other hand, is very largely given up to special work in Mining and Metallurgy, and, in addition to the lectures and demonstrations, nearly two days per week are spent in the Mining and Metallurgical laboratories and the drawing room.

The subjects of instruction and the number of hours per week devoted to each subject are as follows:—

FIRST YEAR.

	Hrs.
Descriptive Geometry (p. 176)	4
English (p. 179)	2
Freehand Drawing (p. 180)	3
Lettering (p. 180)	3
Mathematics, 1, 2, 3, 8. (p. 182)	10
Physics (p. 193)	2
Physical Laboratory (p. 193)	4½
Shopwork (p. 212)	7

SECOND YEAR.

	Hrs.
Chemistry (p. 171)	3
Descriptive Geometry (p. 176)	3
Mapping (p. 196)	3
Mathematics, 4, 5, 9 (p. 182)	6
Physics (p. 193)	2
Surveying (p. 196)	3
Chemical Laboratory (p. 171)	6
Physical Laboratory (p. 193)	3
Shopwork (p. 212)	4

THIRD YEAR.

	Hrs		Hrs.
Chemistry	(p. 171), 1 (b)	Mining	(p. 189), 1
Geological Excursions.	(p. 181), 3 (c)	Ore-Dressing	(p. 189), 2 (b)
Geological Museum Work	(p. 181), 1 (d) 2 (b)	Surveying	(p. 196), 2
Geology	(p. 181), 3	Theory of Structures.	(p. 173), 3
Graphical Statics	(p. 173), 2 (a)	Transportation	(p. 198), 2 (b)
Machine Design	(p. 184), 2	Chemical Laboratory	(p. 171), 3
Mapping	(p. 196), 6 (a)	Determinative Mineralogy Laboratory	(p. 188), 3
Mathematics, 6, 7, 10.	(p. 182), 2	Fire Assaying Laboratory	(p. 186), 4 (b)
Mechanical Drawing.	(p. 184), 3	Ore-Dressing Lab	(p. 189), 2 (b)
Metallurgy	(p. 186), 2 (a)	Testing Lab.	(p. 173), 3 (b)
Mineralogy	(p. 188), 2		

FOURTH YEAR.

	Hrs.		Hrs.
Chemistry	(p. 171), 2 (b) opt.	Mining Problems.	(p. 189), 1 (b)
Designing	(p. 184), 6 (b)	Mining Machinery	(p. 189), 2 (a) 1 (b)
Geology and Ore Deposits,	(p. 181), 4 (b)	Mining Colloquium	(p. 190), 1
Canadian Geology	(p. 182), 1 (a)	Ore-Dressing & Milling.	(p. 189), 2 (a)
Hydraulics.	(p. 174), 1 (a), 1 (b) opt.	Physiography	(p. 182), 1 (b) opt.
Hydraulic Machinery	(p. 175), 1	Petrography	(p. 181), 1 (a)
Metallurgy	(p. 186), 2	Mechanical Engineering,	(p. 184), 2 (a)
" Iron and steel.	(p. 186), 1 (a)	Chemical Lab	(p. 171), 9 (a), 6 (b)
" Alloys	(p. 187), 1 (b) opt.	Hydraulic Laboratory.	(p. 175), 3 (a)
" Advanced	(p. 187), 1 opt.	Metallurgical Lab	(p. 187), 5 (a) 8 (b)
" Electro.	(p. 187), 1 (b) opt.	Ore-Dressing Lab.	(p. 187), 5 (a)
Mineralogy	(p. 188), 2 (a)	Petrographical Lab.	(p. 181), 3 (b)
Mining	(p. 189), 2 (a), 3 (b)		

VIII. Transportation.

The following tables give the details of the proposed course in Transportation, but they are tentative only and are subject to modification.

FIRST YEAR.

	Hrs.		Hrs
Descriptive Geometry	4	Mathematics	10
English	1	Physics	2
Freehand Drawing	3	Physical Laboratory	4½
Lettering	3	Shopwork	7

SECOND YEAR.

	Hrs.		Hrs.
Chemistry	3	Physics	2
Mapping	3	Surveying	2
Materials of Construction	2	Chemical Laboratory	4
Mathematics	6	Physical Laboratory	3
Mechanical Drawing	3	Shopwork	3

The curriculum for the first two years is identical with that for all other engineering students in the Faculty and is based on the assumption that the proposed unification scheme will be carried into effect.

THIRD YEAR.

Mechanical.	*Civil.*
Kinematics and Dynamics of Machines.	Machine Design.
Machine Design.	Mathematics.
Mathematics.	Mechanical Engineering.
Mechanical Engineering.	Railway Economics: Theory of Location.
Railway Economics: Theory of Location,	Surveying.
Theory of Structures.	Theory of Structures.
Transportation.	Transportation
Mechanical Eng. Lab. (Kin. and Dyn.)	Graphical Statics.
Draughting Room Work.	Mechanical Drawing.
Graphical Statics.	Railway plans, profiles, estimates, track design, etc.
Mechanical Drawing.	Shopwork.
Railway plans, profiles, estimates, track design, etc.	Testing Laboratory.
Shopwork.	Surveying fieldwork.
Testing Laboratory.	

FOURTH YEAR

Mechanical.	*Civil.*
Dynamics of Machines	Electrical Engineering.
Electrical Engineering.	Hydraulics and Hyd. Machy.
Hydraulics and Hyd. Machy.	Railway Const. and Maint. and Structures.
Locomotive Engineering, etc.	Railway Management.
Machine Design.	Railway organization, operation, etc.
Prime Movers.	Signalling: Law and Accounting.
Railway Const. and Maint. and Struct.	Theory of Struct. and Bridge Design.
Railway Management.	Transportation.
Railway Organization, operation, etc.	Elect. Eng. Lab.
Shop design, equipment and practice.	Hydraulic Lab.
Signalling; Law and Accounting.	Mechl. Eng. Lab.
Thermodynamics.	Station, Yard and Terminal Design.
Designing; Dyn. and Thermo.	Structural Design.
Elect. Eng. Lab.	Testing Lab.
Hydraulic Lab.	
Mechl. Eng. Lab.	

Student Apprentices.—It is intended that students taking the Course in Transportation shall enter the service of the Railway Companies, as apprentices, during the summer vacations, so as to gain a preliminary insight into the actual working of the several departments.

Graduate Apprentices.—It is also proposed that the students, upon graduation, shall serve a probationary term as "graduate apprentices" for a period of one or two years.

§ XI. COURSES OF LECTURES.

N.B.—The following courses are subject to such modifications during the year as the Faculty may deem advisable.

I. Architecture.

PROFESSOR:—PERCY E. NOBBS.
LECTURER:—H. F. ARMSTRONG.

The work of the First Year, which includes Mathematics, English, French, History and Physics in the Arts Faculty, and Drawing and Shop-work in the Applied Science Faculty is fully detailed on pages 88, 94, 107, 113, 115, 180 and 212. During the last three years the courses of study for architectural students are as follows:—

1. *History of Architecture.* SECOND YEAR. (First Term.) Egypt, Assyria, Babylon, Greece. (Second Term.) Rome, Pompeii, the Early Christian and Byzantine periods. Mr. Nobbs.

   Text Book:—"A History of Architecture," by Banister Fletcher (Batsford).

   Reference Books:—Fergusson: "History of Ancient and Mediæval Architecture"; Anderson and Spiers, "Architecture of Greece and Rome"; Perrot and Chipiez, "Histories of Ancient Art"; Gardner, "Ancient Athens"; Stuart and Revett, "Antiquities of Athens"; Middleton, "Ancient Rome"; Choisy, "L'Art de Bâtir chez les Romans"; Violet-le-Duc, "Lectures on Architecture"; Baldwin Brown, "From Schola to Cathedral".

   THIRD YEAR. (First Term.) The Romanesque Period in Europe. The Gothic Periods in England. (Second Term.) The Gothic Periods in France and Spain. The Revival in Italy. The Gothic Revivals of the XIXth Century. Mr. Nobbs.

Text Books:—Banister Fletcher, "A History of Architecture" (Batsford); E. S. Prior, "History of Gothic Art in England (Bell); *or* Moore, "Gothic Architecture" (Macmillan).

Reference Books:—Fergusson, "History of Ancient and Mediæval Architecture"; G. E. Street, "Royal Academy Lectures"; Rickman, "Gothic Architecture"; Sharpe, "Architectural Parallels"; Smith and Poynter, "Architecture, Gothic and Renaissance"; G. E. Street, "Brick and Marble of N. Italy"; Ruskin, "Stones of Venice."

FOURTH YEAR:—(First Term.) The Renaissance in Italy, France and England. (Second Term.) The late Renaissance in France and England and the XIXth. Century movements in Europe and America. Mr. Nobbs.

Text Books:—Banister Fletcher, "A History of Architecture" (Batsford); Anderson, "Renaissance Architecture in Italy" (Batsford); Bloomfield, "Short History of Renaissance Architecture in England" (Bell).

Reference Books:—Fergusson, "History of Modern Architecture"; Statham, "Modern Architecture"; Sturgis, "European Architecture"; Berty, "La Renaissance Monumental en France"; Gotch, "Early Renaissance Architecture in England"; Blomfield, "Renaissance Architecture in England.

2. *Theory and Evolution of Architectural Forms.* SECOND YEAR. (First Term.) The origin of Art; The Moral and Material Logic of Ornament. Principles of Design. (Second Term.) The evolution of column and lintel Architecture. The evolution of arched and vaulted Architecture. Mr. Nobbs.

Text Book:—G. Baldwin Brown, "The Fine Arts" (Murray).

Reference Books:—(As in History of Architecture).

3. *Building Construction.* SECOND YEAR. (First Term.) Masonry; Concrete; Brickwork; Carpentry for floors and roofs. (Second Term.) Joinery for doors, casement and sash windows, stairs, etc.

Reference Books:—Rivington, "Building Construction"; Kidder, "Building Construction and Superintendence"; Clark, "Building Superintendence"; Martin, "Details of Building Construction"; Chandler, "Construction Details"; Mitchell, "Plates of Building Construction".

4. *The Building Trades.* THIRD YEAR. The Building Construction of the Second Year will, in a sense, be continued in the course on the materials and techniques of the trades. Details will be prepared for stone carvers and wood carvers, for plaster work and wrought iron and beaten metal and cast bronze; for decorative joinery and fittings; for marble pavements; leaded glazing, stained glass, and simple cabinet work. Mr. Nobbs.

Reference Books:—Dobson, "Masonry and Stonecutting"; Starke Gardner, "Wrought Iron Work"; Mellar, "Plastering, Plain and Decorative"; Day, "Windows, a Book about Stained Glass."

*5. *Ornament and Decoration.* FOURTH YEAR. (First Term.) The Ornament of various periods. (Second Term.) The Evolution of Mural Decoration. Heraldry, Ancient and Modern.

Designs for decoration will be prepared in connection with this course, which will in this way follow up the work in the course on the Building Trades. Mr. Nobbs.

Text Books:—Day, "Anatomy of Pattern" (Batsford); Eve, "Decorative Heraldry" (Bell).

Reference Books:—Violet-le-Duc, "Dictionnaire Résonné"; Owen Jones, "Grammar of Ornament"; Walter Crane, "The Basis of Design"; Valance, "William Morris, his Art, etc."; Meyer, "Hand-book of Ornament."

*6. *The Science of Planning.* FOURTH YEAR. The planning of stables, farm buildings, cottages, workmen's dwellings, villas, country houses, city tenements office buildings, schools, colleges, churches, hospitals, baths, banks, fire-stations, libraries, town halls, public buildings considered in the light of the governing principles of each type. For his diploma design the student will prepare a complete set of drawings for a building of moderate dimensions in connection with this course. Mr. Nobbs.

* Courses 5, 6 and 7 will not be taken up in the session 1905-6.

Reference Books: — Marks, "Principles of Planning"; Statham, "Modern Architecture"; Stevenson, "House Architecture"; Also back numbers of the Building Papers, etc., etc.

*7. *Professional Practice.* FOURTH YEAR. (First Term.) Conditons of Contract; Specifications; Bills of quantities. (Second Term.) Building By-laws; Architectural Jurisprudence.

8. *Hygiene.* THIRD YEAR. (First Term.) Light and Air, Water, Sanitary Plumbing. Drain plans will be prepared. (Second Term.) Gas, Electric Light, Heating and Ventilation. A Heating plan will be prepared.

Reference Books:—Lister Sutcliffe, "Modern House Construction"; Stevenson and Murphy, "Public Health"; Carpenter, "Heating and Ventilating of Buildings."

STRUCTURAL ENGINEERING.

Messrs. E. E. S. Mattice, B.A.Sc., (McGill), and M. C. J. Beullac, B.Sc., (Univ. of France), of the Dominion Bridge Works, give special courses of lectures on Wednesdays at 12 m., and Fridays at 2 p.m., in the following:—

Second Year. (First Term.) Masonry, Concrete, Brickwork, Carpentry for floors and roofs.

(Second Term.) Joinery for doors, casement and sash windows, stairs etc.

REFERENCE BOOKS:—

Rivington, "Building Construction"; Kidder, "Building Construction and Superintendence"; Clark, "Building Superintendence"; Martin, "Details of Building Construction"; Chandler, "Construction Details"; Mitchell, "Plates of Building Construction."

Third Year. (First Term.) Materials, Foundation, Piers, Arches, Retaining Walls, Framed Timber, Roofs and Floors.

(Second Term.) Iron Roof Truss, Steel Frame Buildings, and Fire-proof construction.

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* Courses 5, 6 and 7, will first be taken up in session 1905-6.

The Drawing period in connection with this course will be devoted to the designing of lumber-framed trusses and joints in iron-work.

Reference Books :—

Baker, "Masonry Construction"; Rivington, "Building Construction."

Fourth Year. Special designs will be prepared for iron roofs and steel frame structures.

Reference Books :—

Baker, "High Office Buildings"; Greene, "Roofs and Bridges"; Merriman, "Theory of Structures"; Bovey, "Theory of Structures and Strength of Materials."

Special designs will be prepared in the drawing-room illustrating the several subjects of the lectures.

R. I. B. A. Examinations.—The Royal Institute of British Architects having decided to hold in the Colonies qualifying examinations for Associateship, and Montreal having been selected as the examination-centre for the Dominion, a special course of lectures in preparation for these examinations will be given during the winter, provided a sufficient number come forward to attend it. The course will embrace the subject of Architectural Styles, their Features, Mouldings, and Ornament, comprising a study in detail of the three great divisions of historical architecture, Classic, Mediæval and Renaissance, in accordance with the programme of the Royal Institute. The lectures will be given on Tuesday and Thursday, from 5.30 to 6.30 p.m., unless other times prove more convenient to the majority of those attending. The complete course will cover two sessions; for session 1904-05 the subject will be Classic and Mediæval Architecture. The Architectural Library will be available for reading and reference to those taking this course; it is open in the evening from 7.30 to 10.30, as well as during the day. The fee for this course is ten dollars ($10.00) per session.

Architectural Equipment.—The architectural equipment consists of a representative collection of casts, comprising architectural detail and ornament, as well as figure sculpture; of photographs and illustrations; an arc-light electric lantern; a large collection of slides, diagrams, and models; and a library for architectural study. (See § XIII.)

2. Chemistry and Assaying.

PROFESSORS:—B. J. HARRINGTON.
J. WALLACE WALKER.
ASSISTANT PROFESSOR:—N. NORTON EVANS.
LECTURER:—D. MCINTOSH.
DEMONSTRATORS:—W. SCOTT HUTCHINSON.
E. H. ARCHIBALD.
W. LLOYD LODGE.
F. M. G. JOHNSON.
LECTURE ASSISTANT:—M. VIOLETTE DOVER.

Students in all the courses of Applied Science are expected to take up the study of Chemistry in the second year, having previously acquired a knowledge of some branches of Physics in the first year of their course. They attend a course of lectures, supplemented by tutorial classes, on the laws of chemical combination, chemical formulæ and equations, the preparation and properties of the more important elements and their compounds, etc. They must also devote at least one morning or afternoon a week, throughout the session, to practical work in the laboratory, where they learn the construction and use of ordinary apparatus, and perform a series of experiments designed to cultivate the powers of observation and deduction. Many of the experiments involve accurate weighing, and for this purpose the elementary laboratory is well supplied with balances. During the second term considerable attention is also devoted to the subject of Qualitative Analysis.

Text-book:—Holleman's Inorganic Chemistry.

The lectures in the third year comprise:—

(*a*) A course dealing mainly with the methods and reactions employed in Chemical Analysis, being explanatory of the work done in the laboratory; one lecture a week during the session. (*b*) A course on Industrial Chemistry; two lectures a week during the first term. (*c*) An elementary course on Organic Chemistry; two lectures a week during the second term. (*d*) A course on the composition and analysis of Iron and Steel; one lecture a week during the second term.

The laboratory work of the third year comprises:—

(*a*) An extensive course of Analytical Chemistry, including gravimetric, volumetric and electrolytic methods. (*b*) An ele-

mentary course on the preparation of Organic Compounds. (c) Water Analysis and Analysis of Iron and Steel, both in the second term. *Students in the Mining Course are exempt from Organic Chemistry.*

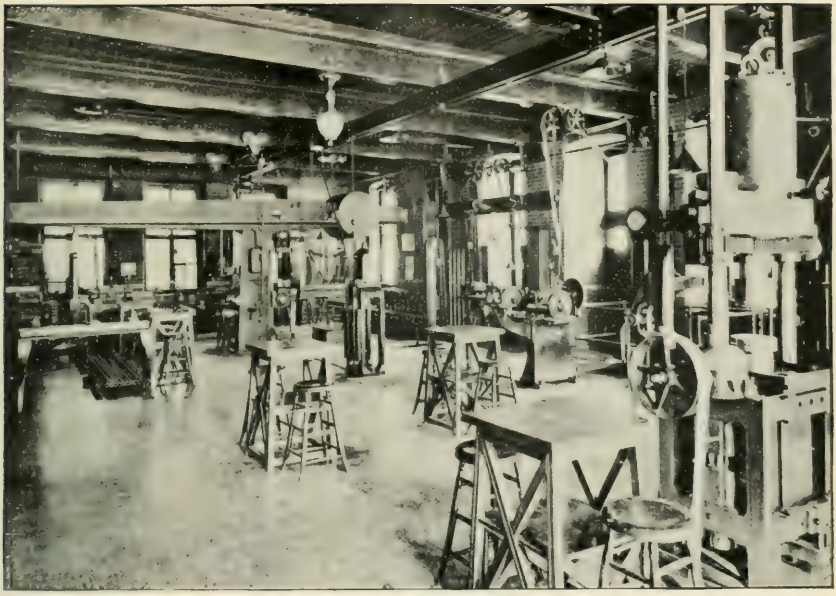
Lectures in the fourth year comprise:—

(*a*) A systematic course on Organic Chemistry, two lectures a week. (*b*) A course on Physical Chemistry, two lectures a week. (*c*) A course on Mineral Analysis. (*d*) A short course on Gas Analysis. In the lectures on Organic Chemistry special atention is paid to the commoner substances which find application in the arts. The lectures on Physical Chemistry are divided into two parts. In the first term they include a study of such physical properties of gases, liquids, and solids as are known to depend upon their chemical constitution: also Thermo-Chemistry and the law of Mass Action. The second term is devoted to Electro-Chemistry, theoretical and applied. The lectures will be based upon the application of the gaseous laws to solutions. This will be followed by descriptions of the most recent applications of electricity to the production of metals and chemicals.

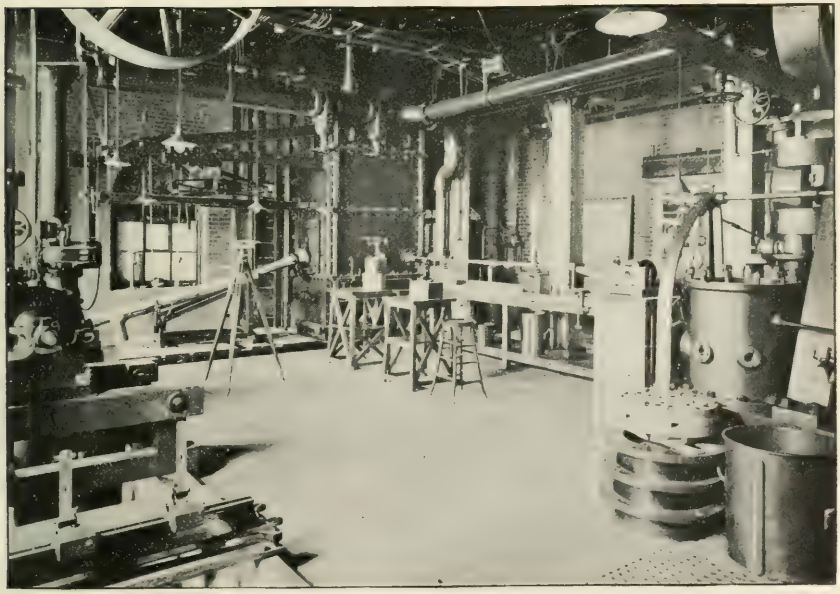
Laboratory work in the fourth year will be arranged to suit the requirements of students. Those intending to prosecute organic work will take up a complete course of Organic Preparations and Analysis, but they must also spend some time on the essential physico-chemical methods: while students of Physical Chemistry must spend enough time in the organic laboratory to become familiar with the chief methods of organic work. Those intending to devote themselves to Mineral Chemistry will omit the Organic Chemistry, but must study the more important physico-chemical methods, and devote a large amount of time to advanced Mineral Analysis. All students in the Chemistry Course must take up Gas Analysis.

Laboratory courses will also be provided for students who wish to make a specialty of any particular branch of Industrial Chemistry, such as Chemistry of Oils, Iron and Steel Analysis, Bleaching, Papermaking, and manufacture of substances by Electro-chemical and other methods.

Of the above fourth year subjects students in the Mining Course take only the lectures and practical work in Mineral Analysis.



An Engineering Testing Laboratory.



Hydraulic Laboratory.

3. Civil Engineering and Applied Mechanics.

PROFESSOR:—HENRY T. BOVEY.
ASSOCIATE PROFESSOR:—E. G. COKER.
LECTURER:—W. MUIR EDWARDS.
DEMONSTRATOR:—C. J. CHAPLIN.

1. *Theory of Structures.*—The lectures on this subject embrace:—

(*a*) The analytical and graphical determination of the stresses in the several members of framed-structures, both simple and complex, as, *e.g.*, cranes, roof and bridge trusses, piers, etc.

(*b*) The methods of ascertaining and representing the shearing forces and bending moments to which the members of a structure are subjected.

(*c*) A study of the strength, stiffness and resistance of materials, including a statement of the principles relating to work, inertia, energy, together with a discussion of the nature and effect of the different kinds of stress, and the resistance offered by a material to deformation and to blows.

(*d*) The design and proper proportioning of beams, pillars, shafts, roofs, bridge piers and trusses, arches, arched ribs, masonry dams, foundations, earth works, and retaining walls.

Graphics.—A complete course of instruction is given in the graphical analysis of arches and of bridge, roof, and other trusses, and in the graphical solution of mechanical problems. It is therefore possible for the student to apply both the analytical and graphical methods of treatment, and thus to verify the accuracy of his calculations. Dr. Bovey and Dr. Coker.

Text Book:—Bovey's Theory of Structures and Strength of Materials.

The Laboratory Work (see § XII.) is as follows:—

Fourth Year.—During the fourth year students are expected to engage in a research upon the physical properties of a material of construction, with special reference to the form and position of such material in the structure; or research may be taken up on the flow of water, through orifices and pipes, over weirs, and on the efficiency of vanes, pumps and hydraulic motors.

Third Year.—During the third year a systematized course of laboratory instruction is given in which students carry out for themselves a series of tests upon engineering materials.

The course comprises:—

(*a*) Linear measurements by Whitworth measuring machine, dividing engine, and micrometer gauges.
(*b*) Calibration of extensometers, gauges, and the like.
(*c*) Tension tests of long wires above and below the elastic limit.
(*d*) Tensile and compressive tests of cast iron, wrought iron, steel, brass, copper, timber, stone, bricks, and cements.
(*e*) Transverse tests of beams under different conditions of loading and fixing.
(*f*) Shearing tests of iron, steel, timber, stone, and the like.
(*g*) Torsional tests of metals.
(*h*) Tests of materials under compound stress.
(*i*) Tests of chains, wire cables, spikes, screws and the like.
(*j*) Pillar tests under various conditions of loading and fixing.
(*k*) Determination of the various moduli of materials by static and dynamic methods.
(*l*) Determination of centres of gravity, moments of inertia, and moments of resistance.
(*m*) The testing of concrete and cement in accordance with standard specifications.

2. *Bridge Construction.*—A course of lectures is given on practical bridge construction, including:

(*a*) The reasons governing the selection of a particular type of bridge;

(*b*) A discussion of the loads to which the bridge will be subjected;

(*c*) The calculations of the stresses in the several members of the bridge;

(*d*) The determination of the sectional areas and forms of the members;

(*e*) The design of the connections;

(*f*) The preparation of complete engineering drawings.

Dr. Bovey and Dr. Coker.

3. *Hydraulics.*—The student is instructed in the fundamental laws governing the equilibrium of fluids, and in the laws of flow through orifices, mouthpieces, submerged (partially

or wholly) openings, over weirs, through pipes, and in open channels and rivers. The impulsive action of a free jet of water upon vanes, both straight and curved, is carefully discussed, and is followed by an investigation of the power and efficiency of the several hydraulic motors, as, *e.g.*, reaction wheels, pressure engines, vertical water wheels, turbines, pumps, etc. Dr. Bovey, Dr. Coker.

Text Book:—Bovey's Hydraulics.

The laboratory work (see also § XII) will include the following:—

(*a*) *Flow through orifices.*—The determination of the co-efficients of discharge, velocity, etc.

(*b*) *Flow over weirs.*—The determination of the co-efficient of discharge with and without side contraction. Also the measurement of the section of the stream.

(*c*) *Flow through pipes.*—The determination of critical velocities and of the effect upon the flow, of angles, bends, and sudden changes in section.

(*d*) *Impact.*—The determination of the co-efficient of impact.

(*e*) *Motors, etc.*—The determination of the efficiency of Pelton and other wheels, of vortex and other turbines, of centrifugal and other pumps, etc.

4. *Hydraulic Machinery.*—The lectures in this course apply the principles of hydraulics to explain the construction and action of hydraulic presses, accumulators, lifts, rams, riveting machinery, pumps, multi-cylinder engines, workshop tools, turbines, centrifugal pumps, and the like. The design of one or two types is considered in detail.

The hydraulic transmission of power and the design and construction of central stations is also included. Dr. Coker.

5. *Municipal Engineering.*—The lectures on this subject will embrace:—

(*a*) *Water Supply.*—The quantity and quality of water; systems and sources of supply; rainfall and evaporation; storage as related to the supplying capacity of water-sheds; natural and artificial purification; distribution, including the location of mains, hydrants, stop-valves, etc.; combined or separate fire and domestic systems; details of construction, including dams,

reservoirs, pumps, etc.; preliminary surveys, estimates of cost, statistics, etc.

(b) *Sewerage of Cities and Towns.*—The various systems for the removal of sewage; special methods in use for its treatment and ultimate disposal; the proportioning and construction of main, branch, and intercepting sewers; man-holes, flush-tanks, catch-basins, etc.; materials used in construction; estimates of cost. Mr. Edwards.

6. *Structural Engineering.*—A special course of lectures on this subject is given by Messrs. E. S. S. Mattice, B.A.Sc., and M. C. J. Beullac, B.Sc., of the Dominion Bridge Company. For details of this course see § XI. 1, p. 169.

4. Descriptive Geometry.

LECTURERS:—C. H. McLEOD.

H. F. ARMSTRONG.

This course deals with the methods of representing objects on one plane so that their true dimensions may be accurately scaled. It discusses the methods employed in the graphical solution of the various problems arising in engineering design, and deals generally with the principles underlying all constructive drawing. The methods taught are illustrated by applications to practical problems. It is the aim of the work to develop the imagination in respect to the power of mentally picturing unseen objects, and, incidentally, precision in the use of the drawing instruments is attained.

First Year.—Geometrical drawing, orthographic projections, including penetrations, developments, sections, etc.; isometric projection. Mr. Armstrong.

Second Year.—Problems on straight line and plane; projections of plane and solid figures; curved surfaces and tangent planes; intersections of curved surfaces; axometric projections; shades and shadows. Professor McLeod.

Third Year.—Mathematical perspective and perspective of shadows, etc.; spherical projection, and the construction of maps. (This course is given under Surveying and Geodesy, see XI. 15, p. 195).

5. Electrical Engineering.

PROFESSOR:—R. H. OWENS.

ASSISTANT PROFESSOR:—L. A. HERDT.

DEMONSTRATORS:———————

UNDERGRADUATE COURSES.

1. *Continuous Currents and Commutating Machinery.*—The theoretical consideration of continuous current flow in circuits of different kinds: the laws of electro-magnetism and of the magnetic circuit; the action and principles of design of commutating and rectifying machinery:—required of students in Electrical and Mechanical Engineering.

T. and Th., 9-10—Mr. Herdt. First and second terms.

Text-books:—Elements of Electricity and Magnetism, J. J. Thomson; Magnetic Induction of Iron and other Metals, J. A. Ewing; Continuous Current Dynamos, J. Fisher-Hinnen; Design of Dynamos, S. P. Thompson.

2. *Alternating Current and Alternating Current Machinery.*—The theoretical consideration of variable current flow in circuits containing resistance, inductance and capacity under different conditions; the action and principles of design of synchronous and induction machinery:—required of students in Electrical Engineering. Must be preceded by course 1.

W., Th. and F., 11-12—Professor Owens. First and second terms.

Text-books:—Theoretical Elements of Electrical Engineering, C. P. Steinmetz; Alternating Currents and Alternating Current Machinery, D. C. Jackson.

3. *Electric Lighting and Power Distribution.*—The design and operation of central and isolated lighting and power plants; the design and construction of distributing lines; arc and incandescent lighting; the applications of stationary motors to general power purposes:—required of students in Electrical Engineering. Must be preceded by course 1.

T., W. and F., 10--11—Mr. Herdt. First Term.

Text-books:—Electric lighting, F. B. Crocker; Electric Power Transmission, Louis Bell.

4. *Electric Traction.*—Determination of power required to accelerate and draw, at different speeds, loads under varying track and other conditions; car equipment as affected by nature

of service: track construction; systems of distribution for urban and for heavy through traffic conditions:—required of students in Electrical Engineering. Must be preceded by course 1.

T., W. and F., 10–11—Mr. Herdt. Second term.

Text-books:—The Electric Railway, Louis Bell. Students are furnished with supplementary notes.

5. *Electrical Designing.*—(*a*) Detailed electric and magnetic calculations and complete drawings for a commutating machine, a synchronous machine and a transformer or an induction motor:—required of students in Electrical Engineering. Must be preceded by course 1 and taken in conjunction with course 2.

Saturday, 9-1..Professor Owens. First and second terms.

Text-books:—Continuous Current Dynamos, J. Fisher-Hinnen; The Induction Motor, B. A. Behrend. Supplemented by MS. notes and data.

(*b*) Complete plans and estimates for an isolated or central lighting or power plant, including distributing system:—required of students in Electrical Engineering. Must be preceded by course 1 and taken in conjunction with courses 3 and 4.

Mr. Herdt. First and second terms.

Text-books:—No text-books. Notes and data are furnished.

6. *Electrical Engineering Laboratory.*—(*a*) Includes such tests of direct current metering and controlling devices, dynamos, motors, boosters, motor-generators, dynamotors, converters, open and closed coil, constant current machines and arc and incandescent lamps as illustrate the principles of their action and the limits of their proper use; also complete test of direct current isolated or central lighting or power plant:—required of students in Electrical Engineering. Must be taken in conjunction with or be preceded by course 1.

T., Th., 2-5—Professor Owens, Mr. Herdt. First and second terms.

Text-books:—Handbook for the Electrical Laboratory and Testing Room, J. A. Fleming. In addition, students are furnished with special laboratory notes and forms.

(*b*) Includes experiments on variable current flow in circuits of different kinds; tests of alternators, synchronous motors and converters, compensators, induction motors, transformers, frequency and phase-changing apparatus, potential regulators, reaction coils, etc., and complete test of alternating lighting or power plant:—required of students in Electrical Engineer-

ing. Must be preceded by course 1 and taken in conjunction with course 2.

M., W. and F., 2-5—Professor Owens, Mr. Herdt. First and second terms.

Text-books:—No text-books. Students are furnished with special laboratory notes and forms.

7. *Telegraphy and Telephony.*—Single duplex, quadruplex and multiplex telegraph systems, telephone systems, current generation for telegraph and telephone work, central telegraph and telephone stations; line construction and testing; special systems of signalling:—optional. One lecture per week, at time to be arranged—Professor Owens. First term.

Text-books:—Telegraphy, Preece and Sievewright; A manual on Telephony, Preece and Stubbs.

Graduate Courses.

8. *Special problems in the theory and practice of alternating current working.*—Two lectures per week at times to be arranged—Professor Owens. First and second terms.

9. *Special problems in Electric Traction.*—One lecture per week at time to be arranged—Mr. Herdt. First and second terms.

10. *Advanced Laboratory Investigations.*—Special research work by students having necessary previous training—Professor Owens, Mr. Herdt.

11. *Electrical Engineering Seminar.*—Weekly meetings are held, at which students present carefully prepared papers upon current engineering literature and special topics in connection with their studies or their laboratory work—Professor Owens, Mr. Herdt.

6. English Composition.

Lecturer:—John W. Cunliffe.

In view of the importance of accuracy of expression to those engaged in scientific or professional work, a course on English Composition is prescribed for all undergraduates of the First Year who do not give evidence of having already reached the required standard of proficiency, either by university certificates, or by passing a special exemption examination, which

will be held in the Engineering Building (Mathematical Class Room No. 1) on Wednesday, Sept. 21, at 11 o'clock.

The students not so exempted will be assigned to a section which will meet once a week for practice and instruction in composition. The handbook used is Carpenter's Elements of Rhetoric, First High School Course (Macmillan Co.), and every member of the class is required to provide himself with a copy. Satisfactory results in class and essay work must be obtained before entry into the Second Year.

Summer Reading.—During the vacation, undergraduates entering the Second Year will study Shakspere's Henry V., ed. Deighton (Macmillan); Goldsmith's Vicar of Wakefield; Scott's Waverley; Stevenson's Kidnapped, and will be examined thereon at the beginning of their second session. The marks obtained in this examination will be reckoned in determining the relative standing at the sessional examinations at the end of the Second Year.

French Students may substitute for the above the following:—

Corneille—Le Cid, Horace.

V. Hugo—Hernani, Ruy Blas.

Balzac—Eugenie Grandet.

Students will also be required to possess some knowledge of the lives of the above French authors.

Students who have already taken equivalent courses in this, or in any other university, may be exempted from a part or from the whole of the above work, on written application to the Dean.

7. Freehand Drawing, Lettering, Etc.

Assistant Professor:—H. F. Armstrong.

In the *Freehand Course*, the object is to train the hand and eye so that students may readily make sketches from parts of machinery, etc., either as perspective drawings in light and shade, or as preparatory dimensioned sketches from which to make scale drawings.

In the *Lettering Course*, plain block alphabets, round writing, and titles, will be chiefly dealt with. In this course, also, tinting, tracing, blue printing and simple map drawing will be included.

8. Geology.

PROFESSOR:—F. D. ADAMS.
DEMONSTRATOR:—A. W. G. WILSON.

The courses are arranged as follows:—

Third Year.—

General Geology.—The lectures will embrace a general survey of the whole field of Geology, and will be introduced by a short course on Mineralogy. Especial attention will be devoted to Dynamical Geology and to Historical Geology, including a description of the fauna and flora of the earth during the successive periods of its past history, as well as to the economic aspects of the subject.

The lectures will be illustrated by the extensive collections in the Peter Redpath Museum, as well as by models, maps, sections and lantern slides. There will be an excursion every Saturday until the snow falls, after which the excursion will be replaced by a demonstration in the Museum.

Text Book:—Scott, An Introduction to Geology.

Petrography.—The modern methods of study employed in Petrography are first described, and the classification and description of rocks is then taken up.

In addition to the lectures, one afternoon a week durthe second term will be devoted to special microscopical work in the Petrographical Laboratory.

Text Book:—Harker, Petrology for Students.

Ore Deposits, Economic Geology and Practical Geology.—The nature, mode of occurrence and classification of Ore Deposits will first be taken up. A series of typical occurrences will then be described and their origin discussed. The more important non-metallic materials, *e.g.*, fuels, clays, abasive materials, building stones, etc., will be similarly treated as well as questions of water supply, artesian wells, etc. The methods employed in carrying out geological and magnetic surveys and in constructing geological sections will then be taken up, with special studies in folding, faulting, etc.

The course will be illustrated by maps, models, lantern slides and specimens.

Text Books:—Geikie, Outlines of Field Geology; Kemp, Ore Deposits of the United States and Canada; Phillips and Louis, A Treatise on Ore Deposits.

Books of Reference:—The Monographs of the U. S. Geological Survey, and the Reports of the Geological Survey of Canada.

Canadian Geology.—A general description of the Geology and Mineral Resources of the Dominion.

Petrographical Laboratory.—See § XII, 11. This laboratory is open to Fourth Year mining students during the second term.

Physiography.—The course will consist of a study of the principal types of Land Forms and their influence upon human development. Attention will be given more particularly to the practical bearing of the subject on engineering work. During the latter part of the course, a brief description of the salient physical features of Canada will be presented.

The course will be illustrated by maps, models and lantern slides.

Field Work.—The students in mining will receive a course of instruction in geological mapping and field work—extending over one week—in connection with the summer school of mining.

NOTE.—Students of the Mining and Chemistry courses take all the Mineralogy of the third year. Mining Students take all courses of the fourth year. Chemistry Students take, in addition to the Geology of the third year, the Mineralogy of the fourth year.

The Petrographical Laboratory is open to fourth year Mining Students during the second term.

9. Mathematics and Mathematical Physics.

PROFESSOR:—G. H. CHANDLER.
ASSISTANT PROFESSOR:—MURRAY MACNEILL.
LECTURER:—W. M. EDWARDS.

The work in this department is conducted from the outset with special reference to the needs of students of applied science. Much time is given to practice in the use of mathematical tables, particular attention being paid to the tracing of curves, graphical illustrations and solutions, methods of computing, approximations, etc.

The courses of study are as follows:—

1. *Geometry.*—Exercises on Euclid, including loci, transversals, etc., elements of Solid Geometry and of Geometrical Conic Sections. First Year, first term. Text-book:—Wilson's Solid Geometry and Conic Sections (Macmillan).

2. *Algebra.*—Miscellaneous theorems and exercises, exponential and other series, determinants, properties and solution of higher equations, complex numbers and vector algebra, graphical algebra with an introduction to Analytic Geometry. First Year, second term. Text-book:—Dickson's College Algebra (Wiley) with lecture notes.

3. *Trigonometry.*— Plane and Spherical. First Year, second term. Text-book:—Murray's Plane and Spherical Trigonometry (Longmans) with Bottomley's and Chambers's Mathematical Tables.

4. *Analytic Geometry.*—The point, straight line, circle, parabola, ellipse and hyperbola. Second year, first term. Text-book:—Lambert's Analytic Geometry (Macmillan).

5. *Calculus.*—Differentiation of functions of one or more variables, successive differentiation, tangents, etc., multiple points, asymptotes, curvature, maxima and minima, integration, with applications to areas, volumes, moments of inertia, etc. Second year, second term. Text-book: — Chandler's Calculus (E. M. Renouf, Montreal).

6. *Analytic Geometry.* — Elements of Geometry of Three Dimensions. Third year, first term.

7. *Calculus.*—Various applications, elementary differential equations. Third year, first term.

8. *Dynamics.*—An elementary course in Kinematics, Kinetics, Statics and Hydrostatics. First year, first term. Text-book.—Blaikie's Dynamics (J. Thin, Edinburgh).

9. *Dynamics.*—Kinematics, Kinetics of a Particle, Statics. Second year, first term. Text-book: — Wright's Mechanics (Van Nostrand).

10. *Dynamics.*—Kinetics of a Rigid Body, centres of pressure, etc. Third year, second term.

Classes may also be held for advanced (optional) work in the above or other subjects. Students taking graduate courses will receive guidance in any advanced mathematics required in connection with their work.

10. Mechanical Engineering.

Professor.—R. J. Durley.

Assistant Professor.—H. M. Jaggays.

Demonstrator.—

1. *Kinematics of Machines.*—(Wednesday, 11; Thursday, 10).

Definitions: mechanisms and machines: kinematic pairing; velocity and acceleration in mechanisms; centrodes; restraint in mechanisms; analysis of the quadric crank chain, the slider-crank chain, and the double-slider crank chain; higher pairing in mechanisms; cams; ratchet and click trains; chamber-crank and chamber-wheel trains; mechanisms involving non-rigid links; screw motion and spheric motion in mechanisms.

Text-book.—Durley's Kinematics of Machines (Wiley).

2. *Dynamics of Machines.*—Third Year.—(Monday, 10; Wednesday, 9). Elementary dynamics of the steam engine; diagrams of crank effort: fluctuation of energy and speed: fly-wheels: friction of journals and pivots: graphic treatment of friction in mechanisms; brakes; dynamics of belt and rope driving; transmission and absorption dynamometers.

Fourth Year.—(Tuesday, 9; Wednesday, 9; Thursday, 12.) Balancing of double and single acting engines; dynamics of the connecting rod; gyrostatic action in machines; theory of governors; graphic methods in dynamics; vibration in machines; knocking of steam engines.

3. *Machine Design.*—Third Year.—Thursday, 10. Principles of the Strength of Materials as applied to the design of the parts of machines; fastenings used in machine construction, bolts, screws, keys, cotters, rivets and riveted joints; journals and bearings; shafts and couplings.

Fourth Year.—(Monday, 9; Wednesday, 12).—Design of wheel gearing; belts, ropes and pulleys; pipes and pipe joints; cylinders; eccentrics, pistons and piston rods, connecting rods, cross-heads and other engine details; flywheels; design of valves and valve gears.

Text-book:—Unwin's Machine Design (Longmans, 2 Vols.).

Book of Reference:—Low and Bevis' Machine Drawing and Design. (Longmans.)

4. *Mechanical Drawing and Designing.*—Second Year.—(Monday and Thursday, 2). Elementary principles of me-

In the Drawing Rooms.

Carpenter Shop.

chanical drawing and draftsmanship; preparation of working drawings of simple machine details; making dimensioned sketches of machines and their parts, dimensioning and conventional colouring of drawings; preparation of tracings.

Third Year (Monday and Thursday, 2).—Designing of simple machine parts; more difficult exercises in mechanical drawing; engine designing.

Fourth Year (Monday and Thursday, 2).—The complete design of a machine, such as a steam engine, a pump, or a machine tool, is worked out, and the requisite working drawings and tracings are prepared.

5. *Mechanical Engineering.*—(Thursday, 10; Friday, 9).

Steam boilers and steam production; fuel and combustion; corrosion and defects of boilers; boiler installations; the steam engine—estimation of power developed under various conditions; the indicator and its diagrams; steam distribution, and performance of pumping and air-compressing machinery, as shown by the indicator; economy of steam machinery; gas and oil engines; gas producers; mechanical distribution of power, and losses of power, in power installations and workshops; air compressors; fans; pumping machinery; steam engine valves and valve gears; valve diagrams; speed regulation in steam engines; lubrication in steam engines; steam turbines and engines for special services; relation between weight and power in steam machinery; marine engines and ship propulsion; elements of locomotive engineering; tractive force in locomotives; train resistance; brakes; refrigerating machinery.

Books of Reference:—Ewing's The Steam Engine (Camb. Univ. Press); Lineham's Mechanical Engineering (Chapman & Hall); Hutton's Mechanical Engineering of Power Plants (Wiley).

6. *Thermodynamics.* See page 199.

7. *Laboratory Instruction.* See pages 205 and 210.

8. *Workshop Practice.* See pages 214 and 215.

Graduate Courses.

The graduate courses in Mechanical Engineering comprise experimental research work of the following kinds:—

Tests of the economy and performance of steam engines and boilers, air and gas engines, and air compressors; experiments on the behaviour of superheated steam, on cylinder condensa-

tion, on feed heating, and on the value of fuels; experiments on the properties and relative values of lubricants, on transmission and absorption dynamometers, on the efficiency of transmission machinery and of machine tools; tests of fans and blowers; experiments on the flow of air and of steam; researches on the tempering and welding of various materials, on the properties of alloys and on the action of cutting tools.

11. Metallurgy.

PROFESSOR:—ALFRED STANSFIELD.

DEMONSTRATOR:—J. HUGH GRICE.

I. The undergraduate courses for Metallurgical and Mining students are as follows:—

Third Year.—(1) General Elementary Metallurgy, including introduction, fuels, furnaces and refractory materials, typical metallurgical operations and reactions. Two lectures a week during first term.

Text-book:—Huntingdon and Macmillan, "Metals, their Properties and Treatment."

(2) Fire Assaying, including introductory, furnaces and appliances, balances and wet assay apparatus, sampling and preparation of ores for assay, fluxes and reagents, assays of gold, silver, and lead ores, assays of bullion and base bullion.

Lectures, demonstrations, and laboratory work,—50 hours, during Second term.

Text-book:—Furman, "Manual of Practical Assaying."

Fourth Year (3) The Metallurgy of iron and steel, copper, lead, gold and silver. The lectures cover the more important dry, wet and electrical methods of extracting these metals from their ores, and refining them. The chemical, physical and mechanical properties of the metals are also considered. The milling and amalgamation, cyaniding and chlorination of gold and silver ores are excluded from this course, as they are treated in the lectures on ore-dressing (see Mining (6)).

Two lectures a week in first term and three lectures a week in second term. Laboratory (see Mining 8).

Books of Reference:—T. Turner, "Metallurgy of Iron"; H. M. Howe, "Metallurgy of Steel"; F. W. Harbord, "Metallurgy of Steel"; H. H. Campbell, "Manufacture and Properties of Structural Steel"; E. D. Peters, "Modern Copper Smelt-

ing": H. O. Hoffman, "Metallurgy of Lead"; H. F. Collins, "Metallurgy of Silver and Lead"; T. K. Rose, "Metallurgy of Gold": M. Eissler, "Metallurgy of Gold"; C. Schnabel, "Handbook of Metallurgy," Vol. I.

(4) Alloys,—their constitution, manufacture and properties; fuels and refractory materials,—their examination and use, including calorimetry and pyrometry. One lecture a week during second term.

Books of Reference:—W. C. Roberts-Austen, "Introduction to the Study of Metallurgy"; R. H. Thurston, "Materials of Engineering"; H. M. Howe, "Iron, Steel and other Alloys."

(5) Metallurgical Problems.—One lecture a week during second term. (This course is alternative with Hydraulics).

(6) Additional lectures are given in the third and fourth years to Metallurgical students. In these lectures the metallurgy and electro-metallurgy of the remaining metals is considered, and attention is given to laboratory and research work in metallurgy and to furnace construction and cost of metallurgical operations.

(7) Metallurgical Machinery (see p. 189).

(8) Laboratory:—One whole day and one half day per week are given to work in the Ore Dressing and Metallurgical Laboratories. In the first term this time is evenly divided between Ore Dressing and Metallurgy, and certain typical operations in each are carried out either as demonstrations, or by groups or individual students.

The whole time in the laboratory in the second term is given to thesis work, and in this individual work each student is permitted to elect between ore dressing and metallurgy, and, when practicable, to select his own special subject.

The following metallurgical exercises will be carried out, as far as time will permit, during the first term, either as demonstrations, individual work, or work in groups. During the second term, any of these or some similar exercises may be selected by the students as their thesis work:—

(*a*) Roasting a sulphide or arsenical ore on a small scale and also in the large roasting furnaces.

(*b*) Formation and properties of copper or lead mattes and slags.

(*c*) Smelting a copper or lead ore in the water jacketed blast furnace.

(*d*) Melting and casting certain metals and alloys.
(*e*) The use of the electric furnace.
(*f*) Cyaniding or chlorination of a gold ore.
(*g*) Leaching a copper or silver ore.
(*h*) Elementary exercises in some of the following:—

Pyrometry, Calorimetry, Flue Gas Analysis, Tests of Refractory Materials, Microscopic Examination of Metals, Heat Treatment of Iron or Steel.

The details of the ore dressing work are given in Mining (8).

II. Graduate Courses.—Special advanced courses of laboratory work are offered in Metallurgy and Assaying.

III. Metallurgical and Assaying Laboratories.—For description, see p. 198.

IV. Metallurgical Excursions and Summer Schools.—Students attending the courses in Mining and Metallurgy are required to attend the Summer School in Mining (see Mining VI.) at the end of their third year.

At this school, when practicable, a portion of the time is devoted to a thorough examination of some metallurgical establishments.

In addition to this, excursions may be made by the class from time to time to such metallurgical works as are within reach.

12. Mineralogy.

Professor:—B. J. Harrington.

The courses are arranged as follows:—
Third Year:—

Mineralogy.—Lectures and demonstrations illustrated by models, specimens and lantern slides. Among the subjects discussed are: crystallography; physical properties of minerals dependent upon light, electricity, state of aggregation, etc.; chemical composition, calculation of mineral formulæ, quantivalent ratios, etc.; principles of classification, description of species.

Determinative Mineralogy.—Laboratory practice in blow-pipe analysis and its application to the determination of mineral species.

Fourth Year:—

Mineralogy (in continuation of the course in third year)—Description of species, particular attention being paid to those which are important as rock constituents and to the economic minerals of Canada.

13. Mining Engineering.

PROFESSOR:—JOHN BONSALL PORTER.

LECTURER:—JOHN F. ROBERTSON.

FELLOW IN MINING:—JAMES M. MCPHEE.

I. The undergraduate courses in detail are as follows:—

Third Year.—(1) Mining. Excavation, explosives and blasting: rock drills, coal cutters, etc.: gold washing, river mining, hydraulic mining and gold dredging. (One lecture per week. This course is continued in the fourth year (see Mining 4).

(2). Ore dressing. The theory and practice of ore dressing and coal washing: the forms in which ores occur and the effect of mixture, impurity, etc.: the theoretical considerations affecting mineral separations: the general mechanical operations involved: Dressing Machinery—breakers, rolls, screens, jigs, vanners, tables, washers, buddles, magnetic separators, etc. (Two hours per week in the second term. This course is continued in the fourth year. See Mining 6).

(3). Laboratory. Simple examinations and tests of ores, sands, and gravels, by means of pan, vanning shovel, hand jig, magnet, classifier, etc. (Eight afternoons in the second term. Further laboratory work in the fourth year, see Mining 8).

Fourth Year.—(4). Mining Engineering. The Principles and Practice of mining: prospecting, sinking, drifting, developing, methods of mining, timbering, hauling, hoisting, drainage, lighting, ventilating, etc.: mine accidents and their prevention: general arrangement of plant, administration, stores and dwellings; examination and valuation of mines and mineral properties and mine reports. (Two lectures a week).

(5). Mining and Metallurgical Machinery: the generation, transmission and utilization of power in mining, ore dressing, and metallurgy: steam, hydraulic and electric power plants, air compressors, blowing engines, dynamos, transmission lines, motors, conveyors, cranes, hoists, pumps, ventilating machin-

ery, etc. (Two lectures a week and twenty-five afternoons in the designing room).

(6). Ore Dressing and Milling. Continuation of the ore dressing course of the third year; concentration plants, coal breakers and washers, dry concentration, amalgamation, gold and silver milling, cyaniding, chlorinating, etc. (Two lectures a week in the first term and one in the second).

(7). Mining Colloquium. One hour a week throughout the session is given to informal discussion of the work being done in the department and of other matters relating to mining, ore dressing and metallurgy. Students are required to take active part in these discussions.

Text Books :—

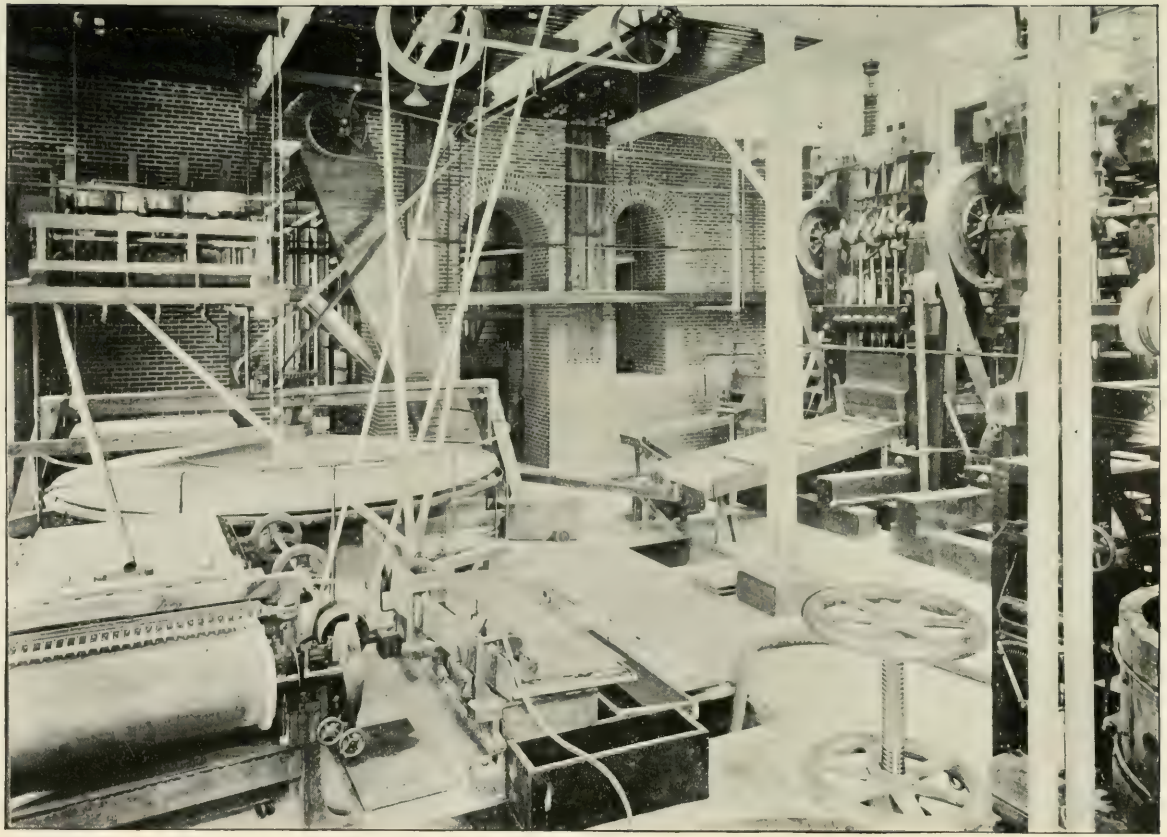
No set text-books are used, but students are recommended to freely consult the following works of reference, in addition to the special references given from time to time:—

C. Le Neve Foster's Ore and Stone Mining; H. W. Hughes' Coal Mining; Ihlsing's Manual of Mining; W. B. Kunhard's Ore Dressing in Europe; R. H. Richard's Ore Dressing; T. A. Rickard's Stamp Milling of Gold Ores; H. Louis' Handbook of Gold Milling; T. K. Rose's Metallurgy of Gold; M. Eissler's Metallurgy of Gold; H. F. Collins' Metallurgy of Silver; The Coal and Metal Miners' Pocket-book.

(8). Laboratory. One whole day and one-half day per week are given to work in the ore dressing and metallurgical laboratories. In the first term this time is evenly divided between Ore Dressing and Metallurgy and certain typical operations in each are carried out either as demonstrations or by individuals or groups of students. In the second term each student is permitted to elect between Mining, Ore Dressing and Metallurgy and to choose an individual subject or thesis, and the whole of the laboratory time in the second term is given to this thesis work.

The set exercises in Ore Dressing comprise a series of experiments in crushing, classifying, jigging, slime treatment, magnetic separation, and amalgamation, and include a complete trial run of the five-stamp battery on a free milling gold ore.

The number of subjects available for thesis work is very great, and ranges from purely theoretical investigations in classification, concentration, etc., to the experimental deter-



Milling Rooms in the Mining Department.

mination of the best methods of treatment of ores and coals. Over one hundred different lots of ore are available, and the quantities are sufficient for work on a comparatively large scale.

The metallurgical work is detailed in Metallurgy (8).

II. Graduate Courses:—Special courses in advanced work are also offered in both Mining and Ore Dressing, and these courses, owing to the unequalled equipment of the new laboratories, as detailed elsewhere, can be made exceedingly valuable, both theoretically and practically.

III. Laboratories:—The admirable laboratories of the University are of peculiar advantage to students in the Mining Course, and enable them not only to become acquainted with the theory of their subject, but to personally investigate its methods on a large scale.

During the first three years of the course the students do systematic work in the several workshops and laboratories of the other departments. During the last half of the third and the whole of the fourth year they spend a large proportion of their time in the special laboratories for Ore Dressing and Metallurgy. (See § XII). In these, the general method is first to conduct before the whole class a limited number of important typical operations in ore dressing and metallurgy, and then to assign to each student certain methods which he must study out in detail, and upon which he must experiment and make written report. In this work he is guided by the professors and demonstrators, and assisted by the other students, whom he must in turn assist when practicable. In this way every student acquires detailed knowledge of certain typical operations and a fair general experience in all the important methods in use.

IV. Illustrations, Museums, Societies, Etc.:—In addition to a large series of lantern slides, the department owns a collection of about twenty-five hundred photographs and other illustrations, the most important of which are kept in sets and sold at cost price, to such students as wish to retain them. This collection is constantly being enlarged.

The Museums of the new building contain suites of ores, fuels and metallurgical materials, models of mines and furnaces, and specimens of finished products.

The McGill University Mining Society meets fortnightly to read and discuss papers by graduate and student members.

and from time to time to hear lectures given by gentlemen eminent in the profession. Special arrangements are made whereby students may attend meetings of the mining section of the Canadian Society of Civil Engineers, and members of the Mining Society are privileged, without additional fee, to become members of the Can. Soc. C.E., and will receive all the publications of the Society.

The Society has recently been made a students' section of the Canadian Mining Institute, and its undergraduate members are therefore student members of the Institute, and receive all its publications. Papers read before the Mining Society may be entered in competition for any students' prizes offered by the Institute. See p. 148.

VI. Field School in Mining:—The summer vacation class instituted in 1897 is now a fixed part of the course. All students of Mining in regular course are required to attend this class at the end of the third year.

The school lasts about six weeks. Of this period about one-sixth is given to field work in Geology, one-half or more to mining work proper and the remainder, when practicable, to an examination of ore dressing and milling plants and metallurgical establishments. The professor of mining and his assistant go with the party and hold daily demonstrations or classes. The students take notes and sketches on the ground, and afterwards are required to work up these notes and to submit a formal report on some part or the whole.

The work in Metallurgy and Geology is carried on by officers of these departments, who attend the school for this purpose, and in certain cases it may be found practicable to permit students especially interested in these subjects to substitute additional work in them for a portion of the mining.

In 1898 and again in 1902 the school was held in the coal region of Cape Breton and the gold region of Nova Scotia. In 1899 the anthracite region of Pennsylvania and metallurgical works at Bethlehem and Philadelphia, Pa., and Perth Amboy, N. J., were visited. In 1901 and again in 1904 the school was held in British Columbia and the most important camps were studied. In 1903 it was held in the iron and copper regions of Michigan.

The instruction given during this field course is free to all mining students, the only expense to them being the

cost of board, lodging, and railway fares, and every effort is made to keep these expenses as low as is practicable.

As some students may have difficulty in finding even this sum in addition to the cost of the regular course, a fund has been provided by Sir William Macdonald, and deserving students who require aid can have money advanced them by applying to the professor of mining.

14. Physics (Experimental).

PROFESSORS:—JOHN COX.
E. RUTHERFORD.
ASSISTANT PROFESSOR:—H. T. BARNES.
DEMONSTRATORS:—A. G. GEHER.
C. C. SCHENCK.

The instruction includes a fully illustrated course of Experimental Lectures on the general Principles of Physics (embracing, in the first year—*The Laws of Energy—Heat, Light, and Sound*; in the second year—*Electricity and Magnetism*), accompanied by courses of practical work in the laboratory, in which the students will perform for themselves experiments, chiefly quantitative, illustrating the subjects treated in the lectures. Opportunity will be given to acquire experience with all the principal instruments used in exact physical and practical measurements.

LABORATORY COURSE.

Three hours per week spent in practical measurements in the Macdonald Physical Laboratory in conjunction with the lecture courses.

Sound.—Velocity of Sound; determination of rates of vibration of tuning forks; resonance; laws of vibration of strings.

Light.—Photometry; laws of reflection and refraction; focal lengths and magnifying powers of mirrors, lenses, telescopes and microscopes; the sextant; spectroscope, spectrometer, diffraction grating, optical bench, polariscopes.

Heat.—Construction and calibration of thermometers; melting and boiling points; air thermometer; expansion of solids, liquids and gases; calorimetry; pyrometry.

Text-books:—Deschanel, Part IV.; or Ganot; Jones, Sound, Light and Heat; Wright, Heat; Tory and Pitcher, Laboratory Manual; Chandler, Laboratory Manual.

Magnetism and Electricity.—Measurements of pole strength and moment of a magnet: the magnetic field: methods of deflection, and oscillation: comparison of moments and determination of the elements of the earth's magnetism; frictional electricity.

Current Electricity.—A complete course of measurements of current strength, resistance, and electromotive force: calibration of galvanometers: the electrometer: comparison of condensers; electromagnetic induction.

Text-books:—S. P. Thompson, Electricity and Magnetism; Tory and Pitcher, Laboratory Manual.

Second Year.—Electrical Engineering students are given an extra laboratory period of 3 hours per week, which allows of a more extended and complete course of experimental work.

Third Year.—Students of Electrical Engineering will continue their work in the Physical Laboratory in the third year. The following is a brief outline of the course:—

Magnetic elements and measurements; use of variometers; testing magnetic qualities of iron: theory and practice of absolute electrical measurements: comparison and use of electrical standards of resistance, E.M.F., self-induction, and capacity; principles of construction of electrical instruments: testing and calibration of ammeters, voltmeters and wattmeters: insulation and capacity tests: electrometers and ballistic methods: construction and treatment of storage cells: testing for capacity and rate of discharge; electric light photometry.

The following are some of the sections in which special provision has been made for advanced physical work:—

Heat.—Thermometry:—comparison and verification of delicate thermometers: air thermometry: measurement of high temperatures: electrical resistance thermometers and pyrometers; thermo-electric pyrometers.

Calorimetry:—Mechanical equivalent of heat: variation of specific heat with temperature: latent heat of fusion and vaporisation: heat of solution and combustion: electrical methods: radiation and conduction of heat with special methods and apparatus: dynamical theory of gases: viscosity: surface tension; variation of properties with temperature.

Light.—Photometric standards: spectro-photometry: theory of colour vision: spectroscopy and spectrum photography: compound prism spectrometers: six inch and 21 inch Rowland

gratings; study of spectra of gases; fluorescence and anomalous dispersion; polarimetry; Landolt and other polarimeters; form of wave surface.

Sound.—Velocity in gases and various media; absolute determinations of period; harmonic analysis of sounds; effects of resonance and interference.

Electricity and Magnetism.—Magnetic properties; influence of stress and torsion; influence of temperature; effects of hysteresis; magneto-optics; other effects of magnetisation; diamagnetism; electrical standards and absolute measurements; calibration of electrical instruments; insulation and capacity testing; electrometer and ballistic methods; temperature variation of resistance, and E.M.F.; thermo-electric effects; electrolysis; chemistry of primary and secondary batteries; resistance of electrolytes; polarisation; electric discharge in gases and high vacua; dielectric strength; behaviour of insulators under electric stress, specific inductive capacity; electro-magnetic optics; alternating currents of high frequency and voltage; electrical waves and oscillations; discharge of electrification by Röntgen rays, ultra violet, uranium and thorium radiations.

Professor Cox will give a special course of lectures to advanced and graduate students, on "the relations between optics, electricity and magnetism," and Prof. Rutherford will give a course on "Radio-Activity in electric oscillations."

N.B.—Students taking a graduate course will receive guidance in any advanced Mathematics required in connection with their work.

15. Surveying and Geodesy.

PROFESSOR:—C. H. MCLEOD.
ASSISTANT PROFESSOR:—J. G. G. KERRY.
DEMONSTRATOR:—JOHN B. HARVEY.

This course is designed to give the student a theoretical and practical training in the methods of land and geodetic surveying, in the field work of engineering operations, and in practical astronomy. The course is divided as follows:—

Second Year.—Chain and angular surveying: the construction, adjustment, use and limitations of the various instruments; underground surveying; topography, levelling, contour surveying; simple curves and setting out work; descriptions for

deeds; general land systems of the Dominion and Provinces. Mr. Kerr.

Third Year.—Construction surveying, including the location of roads, transition curves, setting out work and calculation of quantities; geodetic, trigonometric and barometric levelling; topographic and photographic surveying; hydrographic surveying; introduction to practical astronomy; graphical determination of spherical triangles, spherical projections, construction of maps; mathematical perspective and the perspective of shades and shadows. Professor McLeod.

In the field the students of the second and third years are required to carry out the following:—(1) A chain survey. (2) A chain and compass survey. (3) A pacing survey. (4) A compass and micrometer survey. (5) A contour survey. (6) A plane table survey. (7) A survey and location of a line of road with determination of topography and contours and subsequent staking out for construction. (8) A hydrographic survey of a river channel, including measurement of discharge. (9) A survey at night illustrating underground methods. Astronomical observations with sextant and engineer's transit.

All students are required to keep complete field notes, and from them prepare maps, sections and estimates of the work.

The large drawing rooms are furnished with fixed mountings for the various instruments, in order to permit of their use and investigation during the winter months.

Fourth Year.—Practical Astronomy:—the determination of time, latitude, longitude and azimuth. Geodesy:—figure of the earth; measurements of base lines and triangulation system; adjustments and reductions of observations.

The field work of the fourth year consists in the measurement of a base-line, in triangulations and precision levelling.

The practical work in astronomy (for equipment of observatory see § XII, 6) comprises: (1). Comparisons of clocks and chronometers. (2). Determination of meridian by solar attachment. (3). Meridian, latitude and time by solar and stellar observations with the engineer's transit. (4). Latitude and time by sextant. (5). Time by astronomical transit. (6). Latitude by zenith telescope. (7). Latitude by transit in prime vertical.

Field work is required of all students of the second and third years in the courses of Civil and Mining Engineering, of the

third and fourth years of the Architectural course, and of the fourth year in the Civil Engineering course. The work will begin in 1904 on 22nd August, and continue for a month. The Surveying School will this year be held near Melbourne, P.Q., where a camp will be established for the accommodation of the classes.

Exercises in the geodetic laboratory (for equipment see § XII, Art. 6, p. 203), carried out in the fourth year include the following: (1) Measurement of magnifying power. (2) Determination of vernier errors. (3) Errors of graduation. (4) Measurement of eccentricity of circles. (5) Determination of errors of run of theodolite microscopes. (6) Investigation of the errors of a standard bar. (7) Graduating scales with the dividing engine, and comparison thereof on the comparator. (8) Investigation of the errors of circles on the circular comparator. (9) Determination of the constants of steel tapes. (10) Investigation of the graduation errors of steel tapes on the fifty-foot comparator. (11). Investigation of the errors of aneroid barometers. (12) Investigation of the errors of level tubes, and determination of their scale values. (13) Measurement of the force of gravity with a reversible pendulum.

The equipment of the surveying department comprises the following, in adition to the apparatus of the observatory and geodetic laboratory:—Twenty-four transit theodolites by various makers, with solar and mining attachments; a photo-theodolite, 8-in. alt-azimuth; fifteen dumpy and five wye levels; hand levels and clinometers; two precision levels; eight surveyor's compasses; one miner's dial; three prismatic compasses; pocket compasses; two solar compasses; three marine sextants; artificial horizons; six box sextants; two reflecting circles; two large plane tables; four transverse plane tables; four current meters; Rochon micrometers; double image micrometers; field-glasses; two heliotropes; several barometers; 300 ft. and 500 ft. steel tapes suitable for base measurements; steel chains and steel bands; linen and metallic tapes; sounding lines; pickets; levelling rods; micrometer targets; slope rods; pedometers; station pointer, pantographs, planimeter, slide rules and minor appliances.

Examinations for Land Surveyors:—Any graduate in the Faculty of Applied Science, in the Department of Civil Engineering and Land Surveying, may have his term of appren-

tice-ship shortened to one year for the profession of Land Surveyor in Quebec or Ontario or for the profession of Dominion Land Surveyor.

Text-Books:—Gillespie's Surveying, Johnson's Theory and Practice of Surveying, Shortland's Nautical Surveying, Greene's Practical and Spherical Astronomy, Nautical Almanac, Baker's Engineers' Surveying Instruments.

Transportation.

(On Common Roads, Railways and Canals.)

The lectures will embrace:—

(*a*) A brief historical review of the inception and carrying out of the great Canadian systems of transportation, and a resumé of the laws governing them.

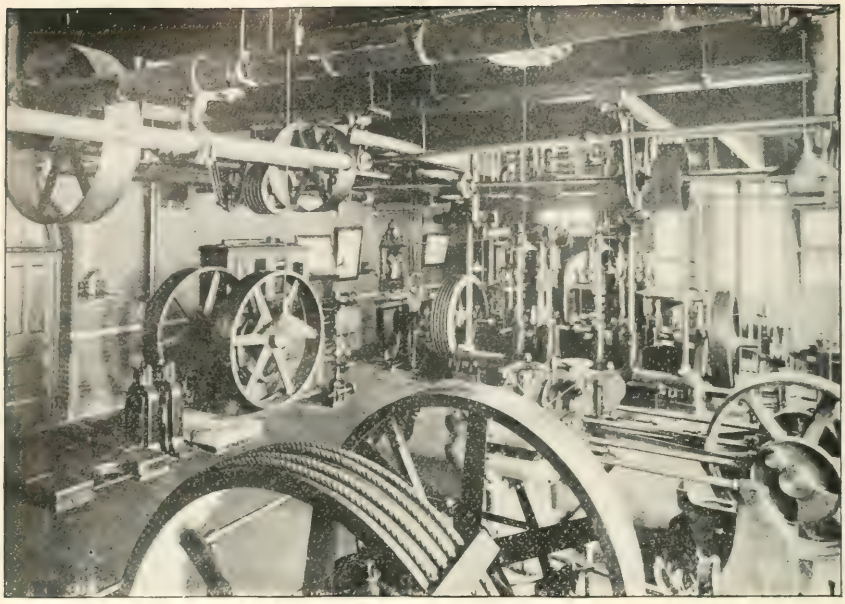
(*b*) Common roads and streets.—Provision made for them in settling up land; the traffic for which they are suited, and the cost of hauling it over different surfaces; the materials used in their construction and the merits and cost of the various systems.

(c) Canals and rivers.—The Canadian canal system; the methods and cost of construction and maintenance; the traffic it is designed to carry; and the cost of transportation.

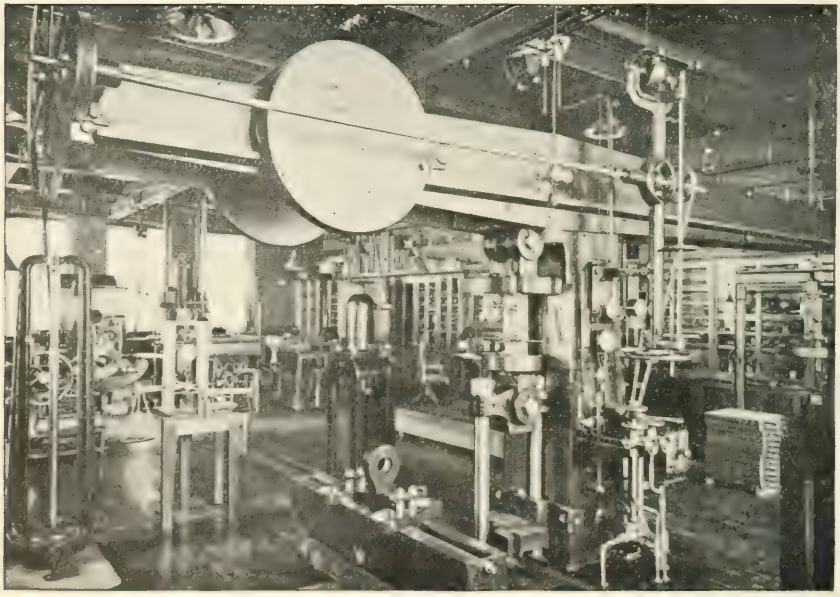
(*d*) Steam railroads.—The traffic they serve and the cost of handling it; the details of location and the influence of physical features and trade possibilities upon it; the cost and design of construction; the duties of the engineer upon such work; the appliances at present in use for safe and speedy handling of trains.

(*e*) Electric roads.—The traffic which they now carry; their location and construction; the reasons for their rapid extension, and their probable future.

The questions of the development and applying of motive power and the various appliances, mechanical and electrical, now in use for these special purposes, are taken up in special descriptive lectures in the mechanical and electrical departments. Mr. Kerry.



Thermodynamic Laboratory.



An Engineering Testing Laboratory.

16. Thermodynamics.

LECTURER:—R. J. DURLEY.
DEMONSTRATOR:—H. M. JAQUAYS.

The course in this subject extends over the third and fourth years, and includes the following:—

Third Year—(Monday, 11; Tuesday, 10.)—Fundamental laws and equations of Thermodynamics; their application to gases and to vapours, saturated and superheated: efficiency of ideal heat engines; properties of steam, and elementary theory of the steam engine; elementary theory of gas and hot air engines.

Fourth Year—(Monday, 12; Thursday, 11.)—Theory of reversed heat engines and refrigerating machines: entropy and entropy-temperature diagrams: a thermodynamic study of the steam engine, including the behaviour of steam in the cylinder: economy of steam engines; influence of size, speed, and rate of expansion; compound expansion; the steam jacket: the testing of steam engines; more advanced theory of gas, air, and oil engines.

The advanced course is carried out as far as possible in connection with the experimental work of the thermodynamic laboratory.

Text Books:—Ewing's Steam Engine (Cambridge Univ. Press); Peabody's Tables of Properties of Steam (Wiley).

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§ XII. Laboratories.

In the Laboratories the student will be instructed in the art of conducting experiments, a sound knowledge of which is daily becoming of increasing importance in professional work.

1. Assaying Laboratory. See Mining and Metallurgical Laboratories.

2. Astronomical Observatory. See Geodetic Laboratory.

3. Cement Laboratory.—The importance of tests of the strength of mortars and cements is very great. The equipment of the laboratory for the purpose is on a complete plan, including:—

(*a*) Three one-ton tensile testing machines, representing the best English and American practice.

(*b*) One 50-ton hydraulic compressive testing machine.

(*c*) Volumenometers for determining specific gravity and for determining the carbonic acid in the raw material.

(*d*) Faija steaming apparatus for blowing tests.

(*e*) Mechanical hand and power mixers.

(*f*) Apparatus for determining standard consistency.

(*g*) Vicats' and Gilmore's needles for determining set.

(*h*) Weighing hopper, spring and other balances.

(*i*) Gun metal moulds for tension, compression and transverse test pieces, and special moulds for placing mortar into the moulds under a uniform pressure, which, together with the mechanical mixers, enable the personal errors to be eliminated.

(*j*) Sieves of 20, 30, 40, 50, 60, 70, 80, 100, 120 and 180 meshes per lineal inch for determining the fineness.

(*k*) A Boehme hammer, with all accessories.

The laboratory is also fitted with copper-lined cisterns, in which the briquettes may be submerged for any required time, and with capacious slated operating tables, bins and tin boxes for keeping the cement dry for any period.

In the Cement Testing Laboratory, researches have been made on the strength of mortars set under pressure, the effect of frost on natural and Portland cements, the effect of sugar on lime and cement mortars, the strength of lime and cement mortars and of the bricks in brick piers, the effect of fine grinding on the adhesive strength of cements, of using hot water in mixing mortars. Continued tests on the strength of concrete blocks in series are made by Fourth Year Students.

In addition to these researches, a large amount of work is done each year by the Third Year students, in investigating the specific gravity, fineness, setting properties, constancy of volume, and the tensile, comprehensive and transverse strengths of cement, both neat and with the sand.

4. Chemical Laboratories. The main lecture-theatre, extending through two storeys, is entered from the ground floor, and seats nearly 250 students. The lecture-table is supplied with coal-gas, oxygen and hydrogen, electricity, water vacuum, down-draught, etc., and can be well seen from all parts of the room.

Besides the main lecture-theatre there are three smaller class rooms, accommodating from 40 to 60 students each.

The three principal laboratories have each a floor-space of about 2,400 square feet, and together have accommodation for nearly two hundred students working at a time. They are lighted on three sides, and have ample hood space. One is intended for beginners, and the others for more advanced work, particularly in qualitative and quantitative analysis. In connection with each of the main laboratories is a balance-room, equipped with balances by several of the best makers.

Physical Chemistry is provided for in a special laboratory, nearly 30 by 40 feet, lighted from the north, and supplied with electricity, steam, vacuum pumps, etc. The equipment of this department consists of the apparatus necessary for the determination of the specific gravities of solutions, of the depression of freezing point, the rise of boiling point, and of the densities of gases and vapours. There are constant-temperature baths for accurate measurement of solubilities, Kohlrausch's apparatus for determining the electrical conductivity of solutions, and the apparatus necessary for measuring the electromotive forces generated between metals and their solutions, and in voltaic cells generally. There are also calorimeters for measuring the heat effects produced in chemical reactions. There is on the same floor an optical room furnished with refractometers for measuring the refractive indices of solutions, goniometers, pol-

ariscopes and spectroscopes. Other forms of apparatus will be added as required for research work.

Immediately adjoining the laboratory of physical chemistry is the photographic department, supplied with two dark rooms, arranged on the maze system, and provided with the necessary appliances for all ordinary photographic work, including an enlarging camera, and apparatus for micro-photography.

The laboratory for gas analysis has a northern exposure, and is fitted with a large tank to contain water at the temperature of the room, for use in obtaining a constant temperature in the measurement of gases. The tables are arranged for work with mercury, and the laboratory is supplied with the apparatus of Hempel, Dittmar, Orsat, Elliot and others. It contains also Fleuss, Boltwood, and Töpler pumps for producing high vacua.

The laboratory for electrolytic analysis is supplied with accumulators, thermopile, platinum electrodes, rheostats, ammeters, voltmeters, etc.

Another room has lately been equipped with electric furnaces and other appliances for electro-chemical work.

The organic department comprises a laboratory for preparations and research, a combustion room for analysis, a dark room for polariscope and saccharimeter work, and a lecture room. The laboratory is fitted with all the necessary apparatus for organic research—special hoods for work with poisonous gases, regulating ovens for digesting and drying at various temperatures, filter presses for the extraction of raw materials, and various forms of apparatus for distillation in vacuo. The dark room is equipped with polariscopes and saccharimeters for sugar work. There is a large supply of the necessary organic chemicals, which are supplied free of charge to students engaged in routine or research work in this department.

The laboratory for determinative mineralogy has places for 28 students, and is supplied with abundant materials for practical work. It adjoins the lecture-room in which the lectures in advanced mineralogy are delivered. The mineralogical department is also provided with suitable machinery, run by electricity, for use in the cutting and polishing of minerals and rocks.

The Library contains a valuable collection of the most recent English, French, and German books, and sets of various journals, and transactions, including the Berichte der Deutschen Chemischen Gesellschaft, Journal für Praktische Chemie, Chemisches Centralblatt, Fresenius' Zeitschrift für Analytische Chemie, Annales de Chemie et de Physique, Journal of the Chemical Society, Journal of the Society of Chemical Industry, Chemical News, Mineralogical Magazine, Mineralogische und Petrographische Mittheilungen, etc. The library is open to students under such restrictions as are necessary to prevent damage or loss of books.

The rooms for allied purposes have, as far as possible, been grouped together on the same floor, and there is a hydraulic lift running from the basement to the attic. The offices and principal laboratories and supply rooms are also connected by a system of telephones. The building is practically fire-proof.

5. Electrical Laboratories.—These laboratories contain all principal types of commutating, synchronous, and induction machinery, together with ample facilities for investigating their action. The several laboratories are the Standardizing Laboratory, the Dynamo Laboratory, the High Tension Testing Room, the Photometer Room, and the laboratory for special investigation.

(*a*) The Standardizing Laboratory is equipped with four Kelvin Balances for alternating and direct current measurements, best range .025 to 600 amperes; a Kelvin standard electrostatic multicellular voltmeter, Board of Trade pattern; a Weston laboratory standard Ammeter, range with shunts 0 to 1500 amperes; a Weston Laboratory standard Voltmeter range with multipliers, 0 to 3000 volts; a Weston Laboratory standard wattmeter range 0-7500 watts; special Weston alternating current voltmeters and wattmeters; a special Elliott Potentiometer with standard cells for electromotive force and current measurement; means for measuring high and low resistances, capacity, and di-electric strength of insulating materials, etc., etc. Direct current for the Laboratory is furnished either from the service plant, from a special motor-dynamo, the voltage of which can be continuously varied from 0 to 10 volts, current capacity 300 amperes; from a 75 K.W. hour storage battery arranged in sections, or from any d.c. machine in the Dynamo Laboratory. Alternating current of several wave shapes and frequencies up to 150 periods per second, and voltages up to 200,000 is available. A special transformer having a current capacity of 800 amperes is used for alternating current ammeter calibration. For alternating current voltmeter calibration, a special regulator is provided, by which voltages from 0 to 200 can be obtained in as small steps as desired.

(*b*) The Dynamo Laboratory. This laboratory consists of two sections, one devoted to direct current work, and the other to alternating current work. The former method of driving all dynamos from an overhead line shaft and clutch pulleys has been abandoned and individual motors supplied for each machine. Each motor is provided with suitable series turns and variable shunt, the whole being connected to act with or against the shunt turns, as a compounding or differential effect is desired. The speed of the motors can be varied about 50 per cent. by field rheostat. This gives perfect control of dynamo speed. Current for operating is obtained from six independent sources of supply; one 75 K.W. direct connected unit in the service plant; 3 sets of 25 K. W. hour chloride accumulators and two city supply circuits. All dynamos and motors are mounted on strong testing benches fifteen inches high, with slotted floor, so that any machine can be placed anywhere on the benches and secured in place. Two small travelling cranes over the benches allow machines to be easily shifted. All wiring is done in conduits under the floor, and large sectional switchboards are provided for current distribution about the laboratories. Special testing tables, permanently wired up and fitted with circuit breakers, switches, etc., facilitate the work. Twenty-five commutating machines, generators, motors, boosters, motor-generators, dynamotors, converters, closed and open coil arc machines, varying in capacity from a fraction of a kilowatt to 75 kilowatts, of many different types and makes, are provided for direct current testing. Twelve alternating current machines, including generators, synchronous motors, compensators, and synchronous converters, together with a large amount of stationary and rotary induction apparatus, are provided for alternating current work. Several of the alternating current dynamos are of the inductor type and several different shaped inductors are provided with each machine to give different wave forms. A specially arranged induction motor serves as a frequency changer. The laboratory is also provided with between eighty and ninety voltmeters, ammeters, and wattmeters of standard make, and of different ranges; condensers, rheostats, standard resistances, etc.

(*c*) High Tension Testing Room. This room is equipped with four 10 K.W., 200-50,000 volt. transformers with switch board and suitable controlling devices. The voltage can be varied in small steps by means of a Stillwell regulator inserted in the primary and by varying the field of the dynamo supplying current. A Kelvin direct reading electrostatic voltmeter, range 100-100,000 volts., gives a means of measuring high voltages directly.

(*d*) The Photometer Room. This room is equipped with standard photometric apparatus for candle power measurements on arc and incandescent lamps.

(*e*) The laboratory for special investigation adjoins the Standardizing Laboratory. Meter and transformer testing are also done in this room.

6. Geodetic Laboratory—The equipment of this laboratory consists of :—

(1) Linear instruments.

(*a*) A Rogers comparator and standard bar for investigating standards of length.
(*b*) A fifty-foot standard and comparator for standardizing steel bands, chains, tapes, rods, etc.
(*c*) A Whitworth end-measuring machine and set of standards.
(*d*) A Munro-Rogers linear dividing engine.

(2) Circular instruments.

(*a*) A Rogers' circular comparator and dividing engine.
(*b*) Two level triers.

(3) Time:—

(*a*) An astronomical clock and clock circuit in connection with the observatory clocks.
(*b*) Chronometers running on mean and sidereal time.
(*c*) Chronograph.

(4) Gravity.—A portable Bessel's reversible pendulum apparatus with special pendulum clock and telescopic apparatus for observing coincidences of beats.

(5) A water gauge apparatus for testing aneroid barometers.

(6) Magnetic instruments :—

(*a*) A Kew dip circle.
(*b*) A Kew filar magnetometer.

The laboratory is constructed with double walls and enclosed air spaces, and has a special heating apparatus, so that the temperature within may be brought to, and held at, any desired degree.

The ordinary course of instruction in this laboratory is described in § XI :, Art 15.

Astronomical Observatory.—The observatory equipment for the purpose of instruction in practical astronomy consists of :—

1. A Bamberg prismatic transit with zenith attachment.
2. Two astronomical transits for meridan observations. Collimating telescopes.
3. A Troughton & Simms' zenith telescope.
4. An astronomical transit in the prime vertical.
5. Sidereal and mean time clocks and chronometers.
6. Chronograph and electrical circuits by which observations and clock comparisons within or without the observatory may be made.

7. Hydraulic Laboratory.—Here the student will study practically the flow of water through orifices of various forms and sizes, through submerged openings, over weirs, through pipes, mouthpieces, etc.

The equipment of this laboratory includes :—

(*a*) A large Experimental Tank, 30 ft. in height and 25 sq. ft. in sectional area. With this tank experiments are conducted on the flow of water through orifices either free or submerged. By a simple arrangement the orifices can be rapidly interchanged without lowering the head, and with the loss of only about one pint of water. The indicating and measuring arrangements connected with the tank are exceedingly delicate and accurate, all times being automatically recorded by an electric chronograph, and valuable results have already been obtained. By means of a special connection with the city water-supply, the available head of water may be increased up to 280 ft.

(*b*) An Impact Machine, which renders it possible to measure the force with which water flowing through an orifice, nozzle, or pipe, strikes any given surface, and also the impulsive effect of the water entering the buckets of hydraulic motors.

(*c*) A Rife's Hydraulic Ram.

(*d*) A Jet Measurer specially designed for investigating the dimensions of the jet produced in the phenomena known as "the inversion of the vein." With this apparatus it is possible to determine, within .001 inch, the dimensions of a jet in any plane and at any point of the path.

(*e*) Numerous orifices, nozzles, and mouth-pieces.

(*f*) A specially designed stand-pipe, with all the necessary connections for pipes of various sizes for investigations on frictional resistance. The pressures are measured by recording gauges, etc.

(*g*) A flume about 35 feet in length, by 5 ft. in width by 3 ft. 6 ins. in depth.

(*h*) Weirs up to 5 ft. in width, and with a depth of water over the sill varying from nil to 8 inches. A weir-depthing machine, with three adjustable heads, gives the surface depth of the stream at any three points in a transverse section. The velocity of the stream is also determined by means of a double Pitôt tube.

(*i*) Numerous hydraulic pressure-gauges.

(*j*) A mercury column 60 feet in height.

(*k*) Gauge-testing apparatus.

(*l*) Various rotary, and piston meters, and a Venturi meter.

(*m*) Apparatus for illustrating vortex motion.

(*n*) Apparatus for illustrating vortex ring motion, and for determining the critical velocity of water flowing through pipes.

(*o*) Five specially built gauging tanks with suitable indicators, each having a capacity of 800 cubic feet, for determining the critical velocity of water flowing through pipes. Also other portable tanks.

(*p*) Transmission and absorption dynamometers.

(*q*) An experimental centrifugal pump, which can be tested with varying heights of suction and discharge.

(*r*) An inward-flow turbine, a new American turbine, an outward-flow impulse turbine, a Pelton, and other motors and turbines.

(*s*) Graduated measures of various sizes; standard gallon and litre measures with glass strikes. This Laboratory is also provided with a set of pumps, specially designed for experimental work and research. They are adapted to work under all pressures up to 120

lbs. per sq. in., and at all speeds up to the highest found practicable. The set is composed of three vertical single acting plunger pumps of 7 in. diam., 18 in. stroke, driven from one shaft. They have two interchangeable valve chests, and it is arranged that both the valves and their seats may be removed and replaced by others. The pumps are also provided with a double set of continuous recording indicators designed in the laboratory and having electrical connections. With these, an accurate record of the suction and discharge valves may be obtained at any given time, all fluctuations of speed, pressure, etc., being automatically recorded.

(7) A three cylinder rotary hydraulic engine of the Brotherwood type has been added to the laboratory equipment during the past year.

8. Mechanical Laboratory.—The equipment of this Laboratory includes :—A belt-testing machine, capable of taking a six-inch belt at 15 feet centres (the machine includes a special hydraulic dynamometer, and a friction brake, and will absorb 15 H. P.); a Thurston railway-pattern oil-tester, fitted with water cooling and heating apparatus for varying the temperature of the brasses as desired; an Engler standard viscosimeter, and other necessary apparatus for the physical testing of lubricants; a specially designed hydraulic support and fittings for carrying out experiments on the action of cutting tools in the lathe; apparatus for experiments on the efficiency of pulleys and hoisting appliances, and on the efficiency of worm and other gearing; apparatus for governor-testing.

This Laboratory is used in connection with the courses in Mechanical Engineering subjects.

9. Metallurgical and Assaying Laboratories.—These consist of a large furnace room of 2,200 sq. feet for metallurgical operations, a furnace room for assaying of 1,300 sq. feet, a balance room, small analytical laboratory and parts of other rooms which are utilized for pyrometric and photo-microscopic work. The furnace room is fitted with a water-jacket blast-furnace, 24 inches inside diameter, for smelting lead and copper ores ; also a hand reverberatory furnace for roasting ores, having a hearth 14 ft. by 6 ft., a Brückner roasting furnace and an English cupellation furnace.

It has also a large lead-lined chlorination-barrel for high pressures, with filter press, air pump, etc.

The furnace room adjoins the milling and ore dressing room (see below) and ores which have been crushed and dressed can easily be conveyed into the furnace room for roasting, smelting or leaching treatments.

In addition to this comparatively large scale plant, apparatus is being provided to enable the students to study in detail the more important metallurgical operations using quantities of ore or metallurgical products of usually not more than a few pounds in weight. With such appliances the work of the student can be of a more individual character than is generally possible with large scale plant, and the reactions which occur can be more easily and exactly studied.

For the purpose of small scale work there is a large crucible furnace which can be used with either natural or forced draught, a large gas furnace which can be used either as an oven furnace or a muffle furnace, and a number of small muffle and crucible furnaces in the assaying laboratory.

In the autumn of 1901 the students erected a model brick blast furnace, and used it successfully for smelting copper ores. A Roots blower has been provided for the blast furnaces, and connections

for supplying forced draft have been made to the gas and reverberatory furnaces. Electric furnaces are being constructed for carrying on operations at very high temperature, and there is a low voltage dynamo and storage battery for electrolytic work. Leaching operations on a small scale are conducted in stoppered bottles which can be agitated by machinery.

A powerful hydraulic press and a piece of apparatus for compressing gases by hydraulic power are available for experiments that have to be conducted under great pressure.

The Assaying Laboratory is equipped with a large soft coal assay furnace, and with a number of small muffle and crucible furnaces fired with coke; the large gas muffle furnace in the furnace room is also available for assaying purposes, and there is a small muffle furnace and a crucible furnace fired by gasoline.

Adjoining the assaying laboratory, is the balance room and a small laboratory for chemical work.

In another room are a number of electrical pyrometers of both the Le Chatelier and Callendar type, and a micro-photographic outfit for recording the microscopic structure of metals and alloys. A polishing machine, worked by power, has been installed to prepare the specimens for examination.

The courses of instruction in these laboratories are described in § XI, 11.

10. Mining and Ore-Dressing Laboratories. —The Department of Mining Engineering has one large laboratory for ore-dressing and a number of rooms of moderate size equipped for use as special laboratories, offices, lecture room, dark room, machine shop, etc. The effective floor space is about 6,600 square feet, in addition to which the departmental store rooms, ore bins ,etc., have an area of 1,000 feet.

The ore-dressing laboratory proper has about 4,200 feet of floor space and is 25 feet high in the centre.

It is equipped with two classes of apparatus. First, a large number of pieces especially designed for individual work on a small scale. Many of these are for elementary investigations and demonstrations of a theoretical nature, others are small scale reproductions of typical ore-dressing and milling machines. Second, a complete plant of standard apparatus for crushing, sampling, milling, concentrating and coal washing. The apparatus last mentioned has been chosen from the best designs in common use and each important class of ore-dressing machinery is represented by two or more different types in order that comparative tests may be made. Each machine is so arranged that it may be used, tested and cleaned up independently, but when expedient, a number of machines can be connected by automatic conveyors and thus complete working plants of many kinds can be improvised, each of sufficient capacity to test large lots of material under approximately working conditions.

The chief pieces of apparatus in the laboratory are rock-breakers of four kinds, Blake, Dodge, Comet and Sturtevant, for coarse crushing; Stamp mills of 600 and 950 lbs., respectively, for the fine crushing and amalgamating of gold ores; Huntingdon centrifugal roller mill, for crushing and amalgamating; high speed steel rolls for fine crushing; Gates' grinder for preparing samples, and a ball mill for extremely fine grinding.

Following these there is a Bridgman automatic sampler and a series of trommels and hand and power shaking screens for sizing the crushed ores; two specially designed jigs of two and four com-

Mathematical Laboratory.

Petrographical Laboratory.

partments, with adjustable eccentric, cam and slide mechanisms, a pneumatic jig, and several small hand and power jigs for coarse concentration; revolving, bumping and stationary glass tables; Frue vanner, Wilfley table, etc., for separating valuable minerals contained in fine sands and slimes; plates, pans, and barrels for amalgamating gold and silver ores; vats and other apparatus for cyaniding, chlorinating and other leaching processes; spitzkasten, spitzlütte, magnetic separators, coal washers, dolly tubs, and various other special pieces of ore-dressing apparatus.

An hydraulic lift and a complete series of belt and bucket elevators, feeders, samplers, etc., are provided for use in heavy continuous work. The motive power used is electricity, generated in the University power and light station, and utilized through a number of electric motors conveniently placed near the machines to be operated. The department is equipped with the most approved apparatus for electrical measurements, and is thus able to make frequent and accurate determinations of the amount of power used by each machine, and for any especial condition of use.

In addition to the main laboratory there are excellent facilities for advanced and research work—including a thoroughly equipped analytic and assay laboratory and a photographic room. The department possesses an excellent Fuess petrographical microscope, a good set of weighing and measuring devices, and a number of pieces of special apparatus for advanced theoretical investigation.

The courses of instruction in these laboratories are described in XI., 13.

11. Petrographical Laboratory.—The Petrographical Laboratory, containing the chief rock collection of the University, is situated in the Chemistry and Mining building. It is arranged for the use of students in the Mining Course as well as for those desiring to take advanced work, and is provided with a number of petrographical microscopes by Seibert, Crouch, and Fuess as well as with models, sets of thin sections, electro-magnets, heavy solutions, etc., for petrographical work.

A collection of typical rocks has been especially prepared for the use of students, and a complete equipment for cutting, grinding, and polishing rocks, has been installed, which runs by electric power and gives excellent facilities for the preparation of thin sections for microscopic use.

For advanced work and petrographical investigation Dr. Adams' extensive private collection of rocks and thin sections is available for purposes of study and comparison.

12. Physical Laboratory.—The equipment of the Macdonald Laboratories comprises: (1) apparatus for illustrating lectures; (2) simple forms of the principal instruments for use by the students in practical work; (3) the most recent types of all the important instruments for exact measurement, to be used in connection with special work and research.

The basement contains the cellars, furnaces, and janitor's department at the west end of the building. The machine room—containing a small gas engine and dynamo, which are fitted for testing, but can also be used for light and power, a motor-alternator and a motor-dynamo—is situated at the extreme western corner of the basement so as to be as far removed as possible from the delicate magnetic and electrical instruments. Here is also the switch-board for controlling the various circuits for supplying direct or alternat-

ing current to different parts of the building. The Accumulator Room contains a few large storage cells, charged by the motor-dynamo, which are fitted with a suitable series-parallel arrangement, and with rheostats for obtaining and controlling large currents up to 4,000 amperes for testing ammeters and low resistances, etc.

The Magnetic Laboratory contains magnetic instruments and variometers of different patterns, and, also a duplicate of the B. A. Electro-dynamometer, which has been completely remodelled and set up with great care for absolute measurement of current. The laboratory, on the opposite side of the basement, contains a very fine Lorenz apparatus for the absolute measurement of resistance, constructed under the supervision of Prof. Viriamu Jones. It also contains a set of Ewing Seismographs and a pair of Darwin recording mirrors for measuring small movements of the soil.

There is a constant temperature room, surrounded by double walls, which contains a Standard Rieffler clock, and is fitted for comparator work.

The ground floor contains at the western corner a small machine shop, fitted with a milling machine and suitable lathes and tools driven by electric motors, and such appliances as are required for the making and repairing of the instruments, for which the services of a mechanical assistant are retained. There is also a store room for glass, chemicals, and cleaning materials, and extensive lockers and lavatories for the use of the students.

The main Electrical Laboratory is a room 60 feet by 40, and is fitted with a number of brick piers, which come up through the floor, and rest on independent foundations, in addition to the usual slate shelves round the walls. This room contains a large number of electrometers, galvanometers, potentiometers and other testing instruments of various patterns, and adapted for different uses. It connects with a smaller room at the side, in which are kept the resistance boxes and standards, and also the capacity standards. A small research laboratory adjoining the electrical laboratory, is fitted up for the study of electrical discharge in high vacua and for work with Röntgen and uranium radiation, and with ultra-violet light.

The first floor contains the main Lecture Theatre, with seats for about 250 students. The lecture table is supported on separate piers, which are independent of the floor. Complete arrangements are provided for optical projection and illustration. The Preparation Room in the rear contains many of the larger pieces of lecture apparatus, but the majority of the instruments, when not in use, are kept in suitable cases in the adjoining apparatus room. On the same floor there is the Heat Laboratory, devoted to advanced work in Thermometry, Pyrometry and Calorimetry, and also to such electrical work as involves the use of thermostats and the measurement of the effects of temperature. There are also two smaller rooms for Professors and Demonstrators.

The second floor is partly occupied by the upper half of the Lecture Theatre. There is also an Examination Room for paper work, a Mathematical Lecture Room, with a special apparatus room devoted to apparatus for illustrating Mathematical Physics, and a special Physical Library chiefly devoted to reference books and periodicals relating to Physics. A store room, lavatories, and Professors' room occupy the remainder of the flat.

The third floor contains the Elementary Laboratory, a room 60 feet square, devoted to elementary practical work in Heat, Light, and Sound, and Electricity and Magnetism. There is a Demonstra-

tor's Room adjoining, and an optical annex devoted to experiments with lenses, galvanometers and polarimeters. Also a series of smaller optical rooms, including a photometric room, specially fitted for arc photometry, and a dark room for photographic work.

Mathematics and Dynamics.—Part of this floor, allotted to the subject of Mechanics, contains instruments for measuring length, area, volume, time, mass; Atwood machines and a Galileo Inclined Plane for the study of the Laws of Motion; Willis Apparatus for experiments in Statics and Friction on a large scale; Simple, Kater and Ballistic Pendulums; and torsion and rotation apparatus for determining moments of inertia. The practical work in this section is arranged to run parallel with and illustrate the lectures in Dynamics delivered in the first year, and also those in the second year of the Faculty of Arts.

13. Testing Laboratories.—The principal experiments carried out in these will relate to the elasticity and strength of materials, friction, the theory of structures, the accuracy of springs, gauges, dynamometers, etc. The equipment of this laboratory includes :—

(*a*) A Riehlé testing machine of 60,000 lbs. capacity, a Wicksteed 100-ton and an Emery 50-ton machine for testing the tensile, compressive and transverse strength of the several materials of construction. To the Wicksteed has been added a specially designed arrangement, by which the transverse strength of girders and beams up to 26 ft. in length can be determined. These machines are provided with the holders required for the various kinds of tests, and new holders have also been specially designed and made in the laboratory for investigating the tensile and shearing strength of timber for wire rope and belt tests, etc. Numerous attachments have also been made to the machines, which have already increased their efficiency. The most recent addition is a double-bearing support for transverse testing.

(*b*) An Impact Machine, with a drop of 30 ft., and with gearing which will enable specimens to be rotated at any required speed, and the blows to be repeated at any required intervals. By means of a revolving drum, a continuous and accurate record of the deflections of the specimens under the blows can be obtained.

(*c*) An Unwin Torsion Machine with a specially designed angle-measurer, by which the amount of the torsion can be measured with extreme accuracy.

(*d*) An Accumulator, furnishing a pressure of 3,600 lbs. per square inch, which is transmitted to the several testing machines, and ensures a perfectly steady application of stress, an impossibility when any form of pump is substituted for an Accumulator.

(*e*) A Blake and a Worthington Steam Pump, designed to work against a pressure of 3,600 lbs. per square inch. The Accumulator may be actuated by either of the pumps, and, if at any time it is desirable to do so, either of the pumps may be employed to actuate the testing machine direct. When in operation the work of the pump and the accumulator is automatic.

(*f*) Extensometers of the Ewing, Unwin, Martens, Marshall and other types. The extensometer equipment has recently been enriched by seven sets of improved extensometer apparatus designed and made in the laboratory and by the purchase of a Ewing extensometer of the improved pattern.

(*g*) Portable cathetometers, and also a large cathetometer specially designed and constructed for the determination of the exten-

sions, compressions and deflections of the specimens under stress in the testing machines.

(*h*) An automatic electric motor pump for actuating the Accumulator; also various electric motors for working the several machines.

(*i*) A drying oven for beams up to 26 ft. in length. The hot air in this oven is kept in circulation by means of a fan driven by an electric motor.

(*j*) Numerous gauges, amongst which may be specially noticed an Emery pressure gauge, graduated in single lbs. up to 2,500 lbs. per square inch. All of the testing machines are on the same pressure circuit, and are connected with the Emery gauge and also other standard gauges, including recording gauges. This arrangement provides a practically perfect means of checking the accuracy of the testing.

(*k*) Special apparatus and recording gauge for the testing of hose, etc.

(*l*) Dynamometers for measuring the strength of textile fabrics, the holding power of nails, etc.

(*m*) Apparatus for determining the elasticity of long wires.

(*n*) Apparatus for determining the hardness of materials of construction.

(*o*) Zeiss and other Microscopes.

(*p*) Delicate chemical and other balances. A very important part of the equipment is the Oertling balance, capable of indicating with extreme accuracy weights of from .00001 lb. up to 125 lbs.

(*q*) Apparatus for the microscopic study of metals and for microscope photography.

(*r*) Micrometers of all kinds.

(*s*) A transverse bending machine, which is adapted for loads up to 30000 lbs. and for beams of 10 ft. span and a testing machine for applying bending and torsion simultaneously.

(*t*) Small beam testing machines, used to illustrate the laws of the bending of beams, both when the ends are free and when they are fixed.

(*u*) Two small tension machines, in which experiments are made on metals, the strains being within the elastic limit.

(*v*) Apparatus with experiments for long wires, adapted for experiments on wires 60 ft. in length.

(*w*) A lever machine of experiments on alternate twisting.

(*x*) A testing machine for breaking tests on wires.

(*y*) A powerful hydraulic press for compression tests on metals, cements, stone and similar materials.

(*z*) Apparatus for measuring strains of compression.

14. Thermodynamic Laboratory.—The Thermodynamic Laboratory is furnished with an experimental steam engine of 120 I. H. P., specially designed for investigating the behaviour of steam under various conditions; the cylinders are 6 1-2 inches, 9 inches, 13 inches, and 18 inches in diameter, and the stroke of all the pistons is 15 inches. The cylinders can be so connected as to allow of working as a simple, compound, triple, or quadruple expansion engine, either condensing or non-condensing, and with any desired rate of expansion. The jackets are so fitted as to permit of measuring independently the water condensed in the cover, barrel, or bottom jacket of each cylinder, and the engine can be worked with any desired initial pressure up to 200 lbs. per square inch. The measurements of heat are made by means of large tanks, which receive the cooling water and the

condensed steam. There is an independent surface condenser and air pump. Two hydraulic absorption brakes and an alternative friction brake serve to measure the mechanical power developed.

The Laboratory also contains the following machinery:—

A Robb automatic cut-off engine, having a cylinder 10 1-2 inches in diameter by 12 inches stroke. This engine is specially fitted up for the measurement of cylinder temperatures, and can be run at speeds up to 300 revolutions per minute.

An automatic high speed engine by Macintosh & Seymour, having a cylinder 12 inches diameter by 12 1-2 inches stroke. Automatic recording apparatus, registering the load on the brake of this engine, has been constructed and fitted up during the past session.

A hot-air engine built by Woodbury Merrill of Ticonderoga.

An Atkinson "Cycle" Gas engine, having a cylinder 7 inches diameter by 8 inches stroke, and indicating 6 H. P.

An Otto gas engine (built in the workshops of the Department), having a cylinder 8 1-2 inches diameter by 12 inches stroke, and indicating 12 H. P.

A "Dake" steam engine of 4 H. P.

A two stage air compressor taking 40 H P., and having cylinders 10 inches and 17 inches in diameter, by 15 inches stroke. The compressor delivers its air into reservoirs placed beneath the floor of the machine shop, and is provided with an intercooler whose capacity can be varied as desired.

A high speed horizontal engine having a cylinder 6 inches diameter by 9 inches stroke, and operated by compressed air.

A gas-fired preheater for the above engine.

A standard 9 1-2 inch Westinghouse air brake pump, fitted for testing and for supplying compressed air for experimental and other purposes.

A non-rotative Blake steam pump, having steam and water cylinders, 4½ and 2¾ inches diameter and 4½ inches stroke.

The smaller apparatus belonging to the laboratory includes the necessary equipment of weighing machines, brakes, calorimeters, thermometers, gauges, pyrometers, fuel testers, indicators, planimeters, and a Moscrop recorder.

The boiler installation of the Engineering Building supplies steam for heating and power purposes, and is so arranged as to be available for experimental work in connection with the Thermodynamic Laboratory. It comprises boilers of five distinct types as follows:—

One Cornish boiler, for heating service, rated at 50 H. P.

One locomotive boiler, Belpaire type, 100 H. P.

One internally fired tubular boiler, 120 H. P.

Two Babcock-Wilcox water-tube boilers, each 60 H. P.

One Yarrow water-tube boiler, fitted in a closed stokehold, for working under forced draft, rated at 150 H. P.

These boilers are provided with the necessary tanks, weighing-machines and apparatus for carrying out evaporative tests.

§ XIII. Museums.

The Peter Redpath Museum.—The Peter Redpath Museum contains large and valuable collections in Botany, Zoology, Mineralogy and Geology, arranged in such a manner as to facilitate the work in these departments. Students have access to this Museum, in

connection with their attendance on the classes in Arts in the subjects above named, and also by tickets which can be obtained on application.

Engineering Museum.— This Museum occupies the third storey of the Engineering Building, and amongst other apparatus, contains the Reuleaux collection of kinematic models, presented by Sir William Macdonald, and pronounced by Professor Reuleaux to be the finest and most complete collection in America.

Architectural Equipment.— The Architectural Department has been endowed by Sir Wm. Macdonald, the founder, with a very thorough equipment for practical purposes of instruction. In the Museum of the Engineering Building is included a large collection of casts both of architectural detail and ornament (illustrative of the historical development of the various styles) and of architectural and figure sculpture. The freehand-drawing classes for architectural students, as also the classes of architectural drawing and design, are conducted in this portion of the building.

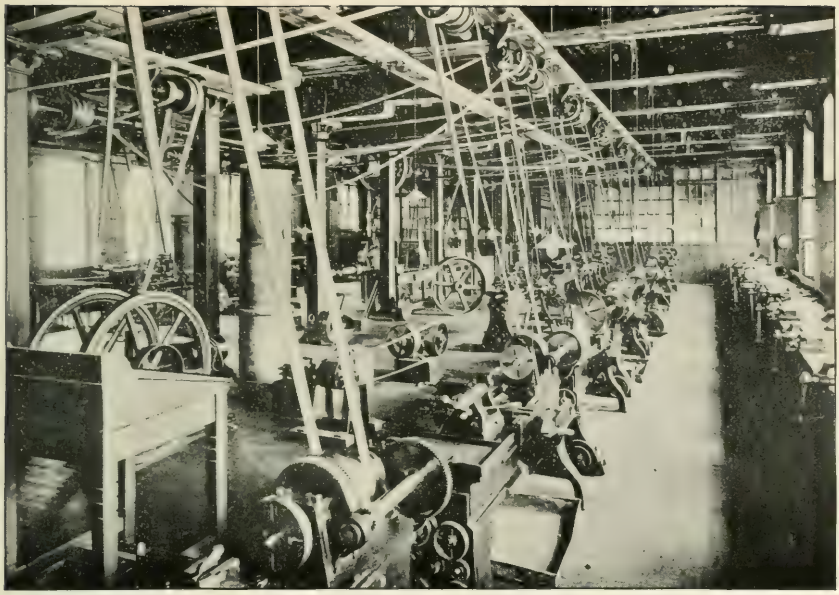
A special architectural department has been added to the University Library; text-books and other works have been added to the Faculty Library. A collection of photographs is placed in the architectural room for the use of students in the class of design, in addition to a select reference library of illustrated works. Diagrams and lantern slides are used in illustration of the historical courses; models and specimens of materials and fittings in those on Building Construction, Sanitation, etc.

XIV. Workshops and Workshop Instruction.

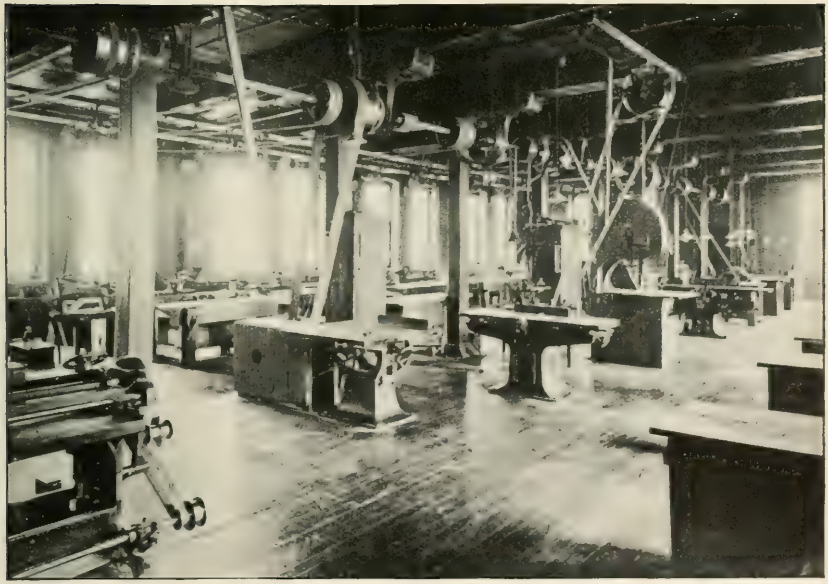
The Workshops, erected on the Thomas Workman Endowment, have a total floor area of more than 25,000 square feet. The course in shopwork is intended to afford some preparation for that study of workshop practice on a commercial scale which every engineer has to carry out for himself. With this end in view, the student works in the various shops of the department, and completes in each a series of practical exercises. He thus obtains some knowledge of the nature and properties of the various materials he employs; he becomes familiar with the use and care of the more important hand and machine tools; and he acquires some manual skill.

The instruction thus obtained must, however, be continued and supplemented. For this purpose students are expected to spend the greater portion of each long vacation in gaining practical experience in some engineering workshops outside the University.

Throughout the course, advanced students are as far as possible entrusted with the construction and erection of machinery and apparatus which afterwards form part of the equipment of the department. An air-compressor, a boring bar, a belt-



Machine Shop.



Pattern Shop.

testing machine, and a duplex feed pump, are examples of the work which has been done in this manner. Such students are also encouraged to see and assist in the repairs required by the engines, boilers and machine tools in the engineering building.

Equipment.—The Carpenter's Shop and the Pattern Shop contain thirty-eight carpenters' and pattern-makers' benches complete with the necessary sets of hand tools, twenty-two wood-turning lathes with their turning tools, a large pattern-makers' lathe for faceplate work, one circular saw bench, a jig saw, a band saw, two wood trimmers, a surface planer, a thickness planer, a mortising machine, a saw-sharpener, and one universal wood-working machine.

The Smith Shop is provided with sixteen Sturtevant forges which are power-driven and are connected with an exhaust fan. There is a power hammer, and the necessary equipment of anvils, swage blocks, sets, flatteners and other tools. Provision is made for instruction in soldering and brazing, and for an elementary course in ornamental wrought iron work in connection with the architectural course.

The Foundry has benches, tools, and apparatus for bench and floor moulding and core-making, and is able to accommodate twenty students. A gas-fired brass melting furnace, a cupola for melting iron, and the necessary core-ovens and core-benches give facilities for undertaking iron foundry work in green and dry sand, and for brass moulding. The shop is served by a hand travelling crane of one ton capacity.

The Machine Shop has twelve 18-inch engine lathes, one 18-inch turret lathe fitted for stud and screw making, one 27-inch engine lathe, one 72-inch surfacing lathe, one brass-finishing lathe, one 36-inch vertical drilling machine with compound table, one universal milling machine with vertical milling attachment and dividing headstock, one planer capable of taking work up to 24″ × 24″ × 5 ft., one 9-inch slotting machine, one 16-inch shaper, one universal grinding machine, a centering machine, a cutter grinder, a tool grinder and a buffing and emery grinding machine. There are vise benches for eighteen students, with the necessary hand-tools, and a marking-off table. The tool-room contains a full equipment of drills, reamers, milling cutters, and accessories, gauges, callipers, and other measuring instruments.

All the machinery in the Workshops is driven electrically by motors taking power from the generating station in the Macdonald Building.

Courses of Instruction.

Instructors in Shopwork.

Carpenter's Shop and Pattern Shop	G. Wooley
Smith Shop	J. Stewart
Foundry	H. Lane
Machine Shop	J. F. Macoun

The work of the various shops is carried out under the direction of the Professor of Mechanical Engineering. The following are the subjects of instruction:—

Carpentry and Joiner Work.—Sharpening and care of wood-working tools. Sawing, planing and paring to size. Preparation of flat surfaces, parallel strips, and rectangular blocks. Construction of the principal joints employed in carpentry and joiner work, such as end and middle lap joints, end and middle mortise and tenon joints, mitres, and dado and sash joints. Dovetailing, scarfing. Joints used in roof and girder work. Wood-turning, use of wood-turning tools.

Pattern making.—Use of pattern-makers' tools. Elements of pattern-making, allowances to be made for draught and for contraction in moulding and casting, use of contraction rule. Preparation of prints and plain core-boxes. Exercises in paring and turning. Construction of patterns and core boxes for pipes, flanges, elbows, tees, and valves. More difficult exercises in pattern-making, including built-up patterns and face-plate work. Gear and wheel patterns.

Smith-work.—The forge and its tools. Use and care of smiths' tools. Management of fire. Use of anvil and swage-block. Drawing taper, square and parallel work. Bending, upsetting, twisting, punching, and cutting. Welding and scarfing. Forging, hardening, and tempering tools for forge and machine work. Tempering drills, dies, taps, and springs.

Foundry-work.—Moulders' tools and materials used in foundry work. The cupola. The brass furnace. Preparation of moulding sand. Boxes and flasks. Core-making. Use of core-irons. Bench moulding. Blackening, coring and finishing moulds. Vents, gates and risers. Special methods required in

brass moulding. Floor moulding. Open sand work. Advanced examples of moulders' work. Melting and pouring metal. Mixtures for iron and brass casting.

Machine-shop Work.—Exercises in chipping. Preparation of flat surfaces. Filing to straight edge and surface plate. Scraping. Screwing and tapping. Use of scribing block and surface gauge. Marking off work for lathes and other machines. Turning and boring cylindrical work to gauge. Surfacing. Screw-cutting and preparation of screw-cutting tools. Use of turret lathe. Taper turning. Machining flat and curved surfaces on the planing and shaping machines. Plain and circular milling with vertical and horizontal spindles: gear-cutting. Cutter-grinding. Drilling and boring. Use of jigs. Grinding flat and cylindrical surfaces. Cutting tools for hand and machine: their cutting angles and speeds. Dressing and grinding tools.

The following work has recently been completed or is now in progress in the Workshops of Department of Mechanical Engineering:—

72 in. surfacing and boring lathe, and compound rest for same.

New rocking grate for locomotive boiler.

Apparatus for experimenting on efficiency of worm gearing.

Set of cast iron gauges for machine shop.

Model to illustrate engine balancing.

Three surface condensers.

One 1,000 lbs. coal car for boiler room.

Two hydraulic dynamometers.

Two draft gauges of special design.

One preheater for 6 x 9 compressed air engine.

One 12 B. H. P. gasoline engine.

XV. Statement of Research Work in the Laboratories—1903-04.

On a new form of testing machine for combined stresses. Dr. E. G. Coker. Proc. R.S.C., 1903.

Note on the application of Fourier's Theorem to the design of cams to effect given displacements, velocities and accelerations. Dr. E. G. Coker. Proc. R.S.C., 1903.

On the relation of thermal change to tension and compression stress, with an account of some experiments on impulsive stress. By E. G. Coker and C. M. McKergow.

On the relation of stress to strain in tension bars, with an account of some experiments on the thermal expansion of metals under stress. C. M. McKergow.

On the efficiency of an outward flow turbine. F. B. Brown and F. A. McKay.

On the modulus of compressibility. F. B. Brown and F. A. McKay.

On the effect of internal hydraulic pressure on the deflection of pipes and Young's Modulus by bending. G. G. Gale.

On the use of a Venturi Meter for air. Prof. R. J. Durley.

On the economy of performance of an engine using preheated compressed air. H. M. Jaquays.

On the Venturi Meter applied to the measurement of compressed air in pipes. O. Hall and A. R. Roberts.

Current conduction in air between electrodes of different forms at high pressures, alternating and continuous. Dr. R. B. Owens.

Study of mercury arc rectifier. Dr. R. B. Owens.

Problems of condenser compensated single phase A. C. induction motor. Dr. R. B. Owens.

Study of induction type A. C. measuring instruments. Dr. R. B. Owens.

A study of alternating current single-phase motors. Dr. R. B. Owens and L. A. Herdt.

A new form of transmission dynamometer. Dr. R. B. Owens and L. A. Herdt.

Predetermination of alternator characteristics. L. A. Herdt.

On the electrical smelting of refractory ores. Dr. A. Stansfield and L. B. Reynolds.

On the resistance offered by minute cylinders in running water. By J. F. Robertson.

An examination of a series of Canadian Micas. By J. E. A. Eglesom.

The Smithy.

The Foundry.

XVI. Donations During Session 1903-04.

$1,000.00 for certain improvements in the metallurgical department, from Sir W. C. Macdonald.

Weston Ammeters and voltmeters. Anonymous.

Rubber insulated wire for research work, from the Okonite Co.

One frequency meter, one synchroscope, one power-factor meter, one integrating wattmeter, from the Canadian Westinghouse Elect. Mfg. Co. (Hamilton, Ont.)

One ammeter, one voltmeter, from the Keystone Instrument Co.

Two enclosed arc lamps, from the Westinghouse Elect. Mgf. Co. (Pittsburg.)

One 3 H.P. D.C. motor for testing department, from L. A. Herdt.

Two specimens of solidified wood, from the Smithsonian Institution, Washington, D. C.

Photographs, drawings, blue prints, reports, specifications, etc., from J. A. L. Waddell, Esq., W. B. Dawson, Esq., the Pennsylvania Railroad Co., Grand Trunk Railway Co., General Electric Company, (Schenectady), Canadian General Electric Company (Peterboro), the Westinghouse Elect. and Mfg. Company (Pittsburg), Canadian Westinghouse Elect. and Mfg. Company (Hamilton), Canadian Bullock Elect. Mfg. Company, Allis-Chambers Company (Chicago), etc., etc.

Publications:—Inst. C. E. (London); Inst. Mech. Eng. (London); Inst. of Engs. and Shipbuilders, in Scotland; Society of Engineers (London); Liverpool Engineering Society; Amer. Inst. C. E.; Amer. Inst. Mech. Engs.; Can. Soc. C. E.; Interstate Commerce Commission, (Washington, D.C.), Cassier's Magazine Company, Am. Inst. Mining Engrs.; The Inst. of Mining and Metallurgy (London); Australasian Inst. Mining Engrs. (Melbourne); The Geological Survey of Canada, etc., etc.

FACULTY OF APPLIED SCIENCE.

Christmas Examinations, December, 1904.

(Subject to Alteration by the Faculty.)

Day and Date.		First Year.	Second Year.	Third Year.	Fourth Year.
Saturday, 17 ..	A.M.		Surveying (*D*)	Graph. Stat. (*D*).	Ore Dressing.
	P.M.			Roads and Canals (*D*)	Roads and Canals (*D*)
					Can. Geology (*C*)
Monday, 19..	A.M.	Dynamics		D. C. Dyn. Mach.	Mech. Engin.
	P.M.		Chemistry (*M*)	Geology (*M*).	
Tuesday, 20....	A.M.		Mechanics.	Surveying (*D*)	Hydraulics.
	P.M.	Exp. Physics.			Hydraul. Lab.
Wednesday, 21.	A.M.		Analyt. Geom.	Mathematics.	Pract. Astron.
					Mach. Design
					Metallurgy.
	P.M.	Geometry			
Thursday, 22 ..	A.M.	Geom. Drawing (*D*).	Exp. Physics.	Metallurgy.	Mineralogy. (*C*)
					Elect. Lighting.

(*C*). Chemistry Bldg. (*D*). Drawing Rooms, Engin. Bdg. (*M*). Molson Hall. All other examinations, Carpenter Shop, Engin. Bdg.

Note.—The examinations begin at 9 a.m. and 2 p.m.

FACULTY OF APPLIED SCIENCE.

April Examinations, 1905.

(Subject to Alteration by the Faculty.)

Day and Date.		First Year.	Second Year.	Third Year.	Fourth Year.
Tuesday, April 4	A.M.	Des. Geom. (*D*)	Des. Geom. (*D*).	Th. Struct. Indus. Chem.	Th. Struct. Elect. Traction. Mechl. Engin.
Wednesday, April 5	A.M.		Calculus.	Anal. Chem. (*C*).	Petrography (*C*).
	P.M.				Designing, (*D*). Designing, (*D*).
Thursday, April 6	A.M.			Pract. Astron. D. C. Dyn. Mach.	Geodesy Thermo. Lab. Mining.
	P.M.			Transport, (*D*).	
Friday, April 7	A.M.	Algebra.		Thermodyn.	Thermodyn. Ore Dressing
	P.M.		Prac. Chem. (*C*). ½ Class.		
Saturday, April 8	A.M.	Exp. Physics.	Exp. Phys. (1 and 3).	Ore Dressing.	Mining and Met. Machy., (*C*).
Monday, April 10	A.M.	Phys. Lab. (*P*). ½ Class.	Kin. of Mach. Theor. Archt	Testing Lab.	Th. Struct. Ore Deposits, (*C*).
	P.M.		Prac. Chem. (*C*) ½ Class.	Struct. Engin. Elect. Meas.	Struct. Engin.
Tuesday, April 11	A.M.	Phys. Lab. (*P*). ½ Class.		Mechanics.	Hydraulics. Metall. (opt).
	P.M.		B'dg Const. (*D*)		Gas Anal., (*C*).
Wednesday, April 12.	A.M.	Phys. Lab. (*P*) ½ Class.	Chemistry (*M*	Org. Chem. (*M*) Des. Geom. (*D*). Mech Draw. (*D*)	Phys. Chem., (*C*). Hyd. Mach.
	P.M.		Mech. Drawing (*D*).	Assaying (*C*).	Phys. Chem., (*C*).
Thursday, April 13	A.M.	Trigonometry	Surv. (*D*).	Geology (*M*). Dyn. of Mach.	Metall. Cu. Pb. Dyn. of Mach.
	P.M.			Geology (*M*).	
Friday, April 14.	A.M.		Hist. Arch. Phys. Lab.	R. R. Eng. (*D*). Mach. Design.	Adv. Metall. Phys. and Pg (*C*) R. R. Eng. (*D*. A. C. Mach. Mach. Desgn.
Saturday, April 15.	A.M.			Mineral. (*C*)	Min. Anal. (*C*)

All examinations begin at 9 a.m. and 2.30 p.m.

(*C*). Chemistry Bdg. (*D*). Drawing Rooms, Engin. Bdg. (*M*). Molson Hall. (1 and 3) Math. Class Rooms, Engineering Building. All other examinations, Carpenter Shop, Engin. Bdg.

Faculty of Law.

(Macdonald Foundation).

The Curriculum extends over three years. It includes lectures upon all the branches of the Law administered in the Province of Quebec, and also upon Roman Law, Legal History, and the Constitutional Law of England, and of the Dominion. Its primary design is to afford a comprehensive legal education for students who intend to practise at the Bar of the Province. In all the courses the attention of students will be directed to the sources of the Law, and to its historical development. During their First Year the students will attend one hundred lectures on Roman Law, from which the Law of this Province is in great part derived. In the lectures on Legal History, the history of our law since the Cession, and its relations to the French and to the English law, will be explained. First Year Students will also attend courses on the Law of Persons; the Law of Real Estate; the Law of Obligations; the Elementary rules of Procedure; and an introductory course on Criminal Law. The remaining branches of law, civil, commercial, and criminal, will be dealt with in the Second and Third years. During the three years the Civil Code, the Criminal Code, and the Code of Civil Procedure will be covered, and lectures will also be given upon subjects, such as Bills of Exchange, Merchant Shipping, and Banking, which are regulated mainly by special statutes.

Students have the free use of the Law Library of the Faculty, to which large additions are continually being made, those lately added including, among many others, the Ontario Reports, Dalloz, Recueil Périodique, Campbell's Ruling Cases, the Encyclopædia of the Laws of England, the new series entitled "The English Reports," the American and English Encyclopædia of Law and the American and English Encyclopædia of Pleading and Practice. It is hoped that before long this Library will contain all the Reports of the several Provinces of Canada. The principal reports and legal

periodicals are taken. A special room for Law Students is provided in the Redpath Library. This room is open during the day, and in the evenings from eight to ten o'clock.

The lectures are delivered in the rooms furnished for the Faculty in the east wing of McGill College by its magnificent benefactor, Sir Wm. C. Macdonald. The Faculty desire to impress upon English students the great importance of obtaining a familiar knowledge of French. In the practice of the profession in this Province it is indispensable that a lawyer shall be able to write and speak French. The Faculty are determined to exact a high standard in this subject, and a new regulation to secure this end will be found below.

Those students who are able to take the B.A. course before entering upon their legal studies are strongly recommended to do so. Those for whom this is impossible are advised to attend courses in the Faculty of Arts for two years.

Matriculation.

The particulars of the Matriculation Examination in the Faculty of Law are given on pp. 15 and 16.

In this connection the attention of candidates is particularly drawn to the following important regulation:—

"At and after the commencement of the session 1906-07 no candidate domiciled in the Province of Quebec shall be admitted as an undergraduate in the Faculty of Law who shall not, in addition to other matriculation requirements, possess an adequate knowledge of French. Every candidate for admission as an undergraduate, whether exempt from the matriculation examination or not, shall be specially examined in this subject by an examiner appointed by the Corporation on the recommendation of the Matriculation Board, before being allowed to enter, and shall not be considered to possess an adequate knowledge, unless he can speak the language with fair fluency and can translate with ease a passage of English into French."

The attention of students who intend to practise law in the Province of Quebec, or to be admitted to the notarial profession, is called to the statutory requirements as to admission to study. These will be found on pp. 233 to 235.

Scholarships and Prizes.

Various scholarships and prizes will be awarded to the students of each year who obtain the highest distinction at the Examinations held at the close of the Session.

No scholarship or prize will, however, be awarded to any student unless in the estimation of the Faculty a sufficiently high standing be attained to merit it.

Faculty Regulations.

1. Students of Law shall be known as of the First, Second, and Third Year, and shall be so graded by the Faculty. In each year, students shall take the studies fixed for that year, and those only, unless by special permission of the Faculty.

2. The Register of Matriculation shall be closed on the 1st of October in each year, and return thereof shall be immediately made by the Dean to the Registrar of the University. Candidates applying thereafter may be admitted on a special examination to be determined by the Faculty; and, if admitted, their names shall be returned in a supplementary list to the Registrar.

3. The lectures will be delivered between the hours of half-past 8 and half-past 9 in the morning, and between 4 and half-past 6 in the afternoon; and special lectures in the evening at such hours and in such order as shall be determined by the Faculty. Professors shall have the right to substitute an examination for any such lecture.

4. At the end of each College Year there shall be a general examination of all the classes, under the superintendence of the Professors, and of such other examiners as may be appointed by the Corporation. The examination shall be conducted by means of printed questions, answered by the students in writing in the presence of the examiners. The result shall be reported as early as possible to the Faculty.

After the examination, the Faculty shall decide the general standing of the students.

5. At the end of the Third College Year there shall be a Final Examination of those students who have completed the Curriculum. This Examination shall be conducted partly by written papers and partly orally. It shall cover all the subjects upon which lectures have been delivered during the three

years' course. Those students who satisfy the examiners shall be entitled, after making the necessary declaration and payment of the Graduation Fee, to proceed to the Degree of B.C.L. The Elizabeth Torrance Gold Medal shall be awarded to the student who shall obtain the highest marks in the Examination, provided his answers shall, in the estimation of the Faculty, be of sufficient merit to entitle him to this distinction. There shall be no Sessional Examination of students who are candidates in the Final Examination.

6. No student shall be considered as having kept a Session unless he shall have attended regularly all the Courses of Lectures, and shall have passed the Sessional Examinations to the satisfaction of the Faculty in the classes of his year.

7. The Faculty shall have the power, upon special and sufficient cause shown, to grant a dispensation to any student from attendance on any particular Course or Courses of Lectures, but no distinction shall in consequence be made between the Examinations of such students and those of the students regularly attending Lectures.

8. Every Candidate, before receiving the Degree of B.C.L., shall make and sign the following declaration:—

Ego A.B. polliceor sancteque recipio, me, pro meis viribus, studiosum fore communis hujus Universitatis boni, et operam daturum ut ejus decus et dignitatem promoveam, et officiis omnibus ad Baccalaureatus in Jure Civili gradum pertinentibus fungar.

Fees.

See page 35.

Special Holidays.

On the following days, when they fall within the session, no lectures will be delivered, viz.: Good Friday, Easter Monday, and Thanksgiving Day. On the following days the morning lectures will be omitted, viz.: Ash Wednesday, All Saints Day (Nov. 1st), and December 8th.

Examinations.

The University Examinations are held in April, at the close of the session.

COURSES OF LECTURES.

Roman Law.

PROFESSOR WALTON.

During the first part the external history of the law from the early period to the codification of Justinian will be dealt with. The sources of the law will be described, and the gradual evolution explained by which the law of the city of Rome became fitted to be the law of the civilized world. A brief sketch will be given of the legal institutions of Rome in the first period and of the early constitutional history.

In the doctrinal part of the course matters mainly of antiquarian interest will be touched on but slightly. Those portions of the Roman Law which have been followed most closely in the existing law of the Province, *viz.*, Property, Servitudes, Pignus and Hypothec, and Obligations, will be treated in detail, and the modifications made by the modern law will be noticed. Class-examinations will be held from time to time, and a first and second prize of books will be given to the two students who obtain the highest marks in these examinations.

Text-books—For the historical part, Walton's Historical Introduction to the Roman Law: and for the Institutes, Moyle's or Sandar's Institutes of Justinian, or Girard, Manuel de Droit Romain.

Books of reference :

Muirhead's Historical Introduction to Roman Law.
Muirhead's Institutes of Gaius.
Maynz, Cours de Droit Romain.
Puchta, Institutionen.
Maine's Ancient Law.

Constitutional and Administrative Law.

PROFESSOR WALTON.

The object of this course is to shew the actual working of the Canadian Constitution. A sketch of the Constitutional History prior to Confederation is given. The B. N. A. Act is explained, and the leading cases discussed which illustrate the respective powers of the Federal and of the Provincial Legislatures. The growth of Cabinet Government is traced, and some of the fundamental rules of the English Constitution are expounded and contrasted with those followed in other countries.

No text-book is prescribed, but students are recommended to refer to Todd, Parliamentary Government in the British Colonies; Houston, Constitutional Documents of Canada; Dicey, Law of the Constitution; Anson, Law and Custom of the Constitution.

Obligations—Advanced Course.

PROFESSOR WALTON.

This course is delivered to students of all the three years together.

Its object is to explain important parts of the law of obligations in more detail than is possible in the general course on the subject.

The method is mainly the explanation of illustrative cases. Frequent references are made to French and English decisions.

Legal History and Bibliography.

PROFESSOR MCGOUN.

This course comprises an outline of the history of the law in force in the Province of Quebec.

The following outline of the course may be given :—

The main source from which our law is derived is the Customary Law of France, as modified by the principles of Roman Law, embodied in several of the codes or collections of Roman Law before the time of Justinian. The Customs of France after being reduced to writing were further modified by the influence of modern Roman Law, which prevailed throughout the larger part of France. The ordinances of the French kings and the commentaries of the great jurists, from Cujas and Dumoulin down to Pothier, brought the Civil Law of France into the systematic form in which it was introduced into this Province. The Custom of Paris, one of the most important of those recognized in France, became formally the basis of the Civil Law in this country, and the ordinance of 1667 was the main authority for procedure.

Since the opening of the British régime the development of Lower Canadian Civil Law has proceeded independently of the Civil Law of France, where the Code Napoléon was passed early in the Century. In Lower Canada a code on the same lines was adopted shortly before Confederation. Lower Canadian Civil Law has been modified by English Law in commercial

matters, and also by statutes passed in the Province. The Criminal Law has been derived almost exclusively from the Criminal Law of England.

The leading authorities upon the main branches of the law, with the reports of decisions of our courts, are brought under the attention of the students in this course.

Agency and Partnership.

PROFESSOR MCGOUN.

This course begins with the principles of the law of Mandate as laid down in the Civil Code of Lower Canada, and treats of Civil and of Commercial Agency. The rights and liabilities of principal and agent both between themselves and in relation to third parties is considered, and special attention is directed to the powers of agents in selling, pledging, and dealing with the property of the principal. The law relating to Factors or Commission Merchants, Brokers, and other Agents is explained.

In partnership the right of each partner to bind his fellow partner in virtue of the mandate reciprocally given and enjoyed, leads to the distinction between Civil and Commercial partnership, and the Limited Partnership or Société en Commandite is also treated of. The distinction between Partnership and Joint Stock Companies leads to a consideration of the connexion between this subject and the subject of Companies and Corporations which form the subject matter of a Course in alternate years on the Law of Corporations and of Joint Stock Companies, as follows:

Law of Corporations and of Joint Stock Companies.

This course is the sequel of the course on Agency and Partnership. The doctrine of limited liability and the opportunity which it affords of carrying out enterprises of great importance, by means of capital contributed by a large number of individuals, is treated of in this course. The growth of Corporations, both those established by long custom, and those created by Royal Charter, or by Parliamentary or Legislative authority, is also explained, as well as the relation between these corporations and the ordinary forms of joint stock companies. Corporations sole and Corporations aggregate are defined, and the principles of laws relating to Corporations and Companies explained.

Criminal Law.

PROFESSOR MR. JUSTICE DAVIDSON.

This course includes :

A history of the Criminal Law and Criminal Procedure of England; and of their introduction into and development throughout Canada: discussion of the Criminal Code and other Statutes enacting criminal offences: of the rules of evidence in criminal cases; of the Fugitive Offenders' Act; of extradition; and generally of the principal features belonging to the Criminal Law of the Dominion.

Commercial Law.

PROFESSOR R. C. SMITH.

The subjects dealt with will include Commercial Sales, Bills and Notes, the law of Carriers, the law of Insurance and the law of Banks and Banking.

1. The course on Carriers will cover:
   (*a*) Carriers, contracts with;
   (*b*) Affreightment;
   (*c*) Merchant Shipping;
   (*d*) Bottomry and Respondentia.
2. The course on Insurance will cover:
   (*a*) Insurance, contracts of;
   (*b*) Marine Insurance;
   (*c*) Fire Insurance;
   (*d*) Life Insurance.

Civil Procedure.

MR. GORDON W. MACDOUGALL.

This course to the students of the First Year is intended to form an introduction to the subject, to explain the simpler kinds of actions, the general rules of pleading, and the jurisdiction of the several courts.

The revised Code of Civil Procedure for the Province of Quebec is the text-book.

Persons.

MR. GORDON W. MACDOUGALL.

This course covers the Law of Acts of Civil Status, Absentees, Marriage, Separation, Divorce, Filiation, Minority and Interdiction.

Civil Procedure.

Mr. Percy C. Ryan.

The advanced course for the Second and Third Years covers all matters of procedure not dealt with in the First Year Course, and includes Provisional Remedies, such as capias, attachment before judgment, injunction, etc., and special proceedings, such as proceedings relating to corporations, and public offices, mandamus, etc., as well as the rules of pleading in the more complicated classes of action. It will be divided into two parts, which will be taken in alternate years.

Marriage Covenants and Minor Contracts, Prescription, Lease, and Municipal Law.

Professor, Mr. Justice Fortin.

Two courses—in alternate years.

Successions, Gifts, and Substitutions.

Professor Mr. Justice Doherty.

Two courses—in alternate years.

I. The Law of Succession.

The course consists of a commentary and explanation of the whole of Title I, and the Third Chapter of Title II of the Third Book of the Civil Code. The order followed by the Code in dealing with the different matters coming within the scope of this course, has however been departed from, with a view of presenting to the student the law governing successions as one whole. The subject will be developed as nearly as possible in the following order:—

1. General notions, definitions, and divisions of the subject; The Testamentary Succession; The Ab-Intestate Succession.
2. Rules of Law common to both Successions.
3. Rules peculiar to the Testamentary Succession.
4. Rules peculiar to the Ab-Intestate Succession.
5. Partition of the Succession (and of property held in undivided ownership generally), its incidents and effects.

II. Gifts and Substitutions.

This course comprises a commentary on and explanation of Chapters I, II, and IV of Title II of the Third Book of the Civil Code, dealing with:

1. Gifts inter vivos.

2. Gifts in contemplation of death, as permitted in Contracts of Marriage.

3. Substitutions.

Obligations.

Mr. Aime Geoffrion.

This course of lectures will consist of a commentary on the title on obligations in the Civil Code, less the chapter of proof (articles 982 to 1,202 inclusive). Our law on the subject will be compared with the old French law and the modern French law, and its general principles will be explained and illustrated.

Real Property Law and Registration.

Professor Marler.

First Year Course—25 lectures.

Distinction of Things—Corporeal moveables and immoveables; Immoveables by incorporation and destination; Incorporeal property; Real and personal rights.

Ownership—Its characteristics and limitations; Possession, good and bad faith; Possessory actions; The Petitory Action; Their results on the Possessor; Accession, natural and industrial.

Usufruct—General characteristics; Fruits and their perception; Quasi-usufruct; Modes of enjoyment by usufructuary; His duties before and during usufruct; How terminated.

Registration—Its modes and formalities; The Cadastral System.

Second and Third Year Courses—25 Lectures in alternate Courses.

First Course—Mode of acquisition of Immoveables—25 Lectures.

In this Course, a Deed of Sale will be analysed and its various clauses explained: The parties; The description and the measurement of land; The obligations of buyer and seller and the security for their performance; Warranty, its modifications and results; The form and registration of the deed; The rights of the wife; The distinctions between Sale and other modes of acquisition, and their effects on the parties.

Forced sales, their incidents and results.

Examination of Titles, practically considered.

Second Course:—Privileges and Hypothecs; Servitudes—25 Lectures.

Debts and Causes of Preference.

Characteristics of Hypothec: The various kinds, their history, conditions and effects; The Ranking of Hypothecs; The Hypothecary action, its characteristics, incidents and results.

Privileges on immoveables.

Registration of Privileges and Hypothecs.

Servitudes.—Natural, legal and conventional; Water Courses and streams; Walls and fences.

Public International Law.

PROFESSOR LAFLEUR.

Sovereignty and equality of Independent States; Recognition of Belligerency and Independence; Justifiable grounds of intervention; Modes of territorial acquisition; Territorial boundaries; Doctrine of Exterritoriality; Treaties and Arbitrations; Laws of War; Neutrality of States and of individuals; Laws of Blockade; Contraband; Confiscation; Prize-Courts and their jurisprudence.

The students' attention will be specially directed to Treaties, Diplomatic Relations, and International Arbitrations, in which Canada is directly concerned.

Private International Law.

PROFESSOR LAFLEUR.

Distinction between the *a priori* and positive methods; Sources of the positive law of Quebec on the subjects; Application and illustrations of the rules for solving conflicts of law in regard to the different titles of the Civil Code; Comparisons between our jurisprudence and that of England, France and Germany.

These two courses will be given in alternate years.

Requirements for the Degree of Doctor of Civil Law.

Adopted March, 1891.

Every candidate for the degree of D.C.L. in Course must be a bachelor of Civil Law of twelve years' standing, and must pass such examination for the Degree of D.C.L. as shall be prescribed by the Faculty of Law. He shall also, at least two months before proceeding to the Degree, deliver to the Faculty twenty-five printed copies of a Thesis or Treatise of his own composition on some subject, selected or approved by the Fac-

ulty, such Thesis to contain not less than fifty octavo pages of printed matter, and to possess such degree of merit as shall, in the opinion of the Faculty, justify them in recommending him for the degree.

The Examination for the Degree of D.C.L. in Course, shall, until changed, be on the following subjects and authors, with the requirement of special proficieney in some one of the groups below indicated. In the groups other than the one selected by the Candidate for special proficiency, a thorough acquaintance with two works of each group shall be sufficient, including in all cases the work first mentioned in each group and the first two works in the third group. In the first group one work on Public and one on Private International Law must be offered.

1 International Law.

A. Public:—
Twiss, Sir T., Law of Nations.
Hall, W. E., International Law.
Harcourt, Sir W. V., Letters by *Historicus.*
Ortolan, T., Diplomatie de la Mer.
De Martens, Droit International.
Holland, Studies in International Law.
B. Private:—
Savigny, Private International Law (Ed. Guthrie).
Bar, Private International Law (Ed. Gillespie).
Foelix, Droit International Privé.
Laurent, Droit Civil International.
Brocher, Droit International Privé.
Fiore, Droit International Privé (Ed. Pradier-Fodéré).
Dicey, Conflict of Laws.
Story, Conflict of Laws.
Lafleur, E., Conflict of Laws.

2. Roman Law.

Maynz, Droit Romain.
Muirhead's Roman Law.
Girard, Manuel de Droit Romain.
Ortolan's Institutes (Ed. Labbé).
Savigny, Roman Law in the Middle Ages.
Cuq, Les Institutions Juridiques.
Puchta, Institutionen.

Krüger, Römische Rechtsquellen.
Roby's Introduction to the Digest.
Hunter's Roman Law.

3. Constitutional History and Law.

Dicey's Law of the Constitution.
Stubbs' Constitutional Law of England.
Hearn, Government of England.
Bagehot, English Constitution.
Franqueville, Gouvernement et Parlement Britanniques.
Gneist, Constitution of England.
Hallam, Constitutional History of England.
May, Constitutional History of England.
Gardiner, Constitutional History of England.
Freeman, Growth of the English Constitution.
Mill, Representative Government.
Anson, Law and Custom of the Constitution.

4. Constitution of Canada and Works Relevant Thereto.

Todd, Parliamentary Government in the British Colonies.
Bourinot, Federal Government in Canada.
Cartwright, Cases under the British North America Act.
Lord Durham's Report on British North America.
Lareau, Histoire du Droit Canadien.
Houston's Constitutional Documents of Canada.
Volume O., Statutes of Lower Canada.
Maseres' Collection of Quebec Commissions.
Viollet, Histoire du Droit Français.
Dilke, Problems of Greater Britain.
Bryce, American Commonwealth.
Cooley, Principles of Constitutional Law.
Curtis, History of the Constitution of the United States.

5. Criminal Law, Jurisprudence, and Political Science.

Stephen, History of the Criminal Law.
Blackstone, Vol. IV.
Harris, Principles of Criminal Law.
Holland, Elements of Jurisprudence.
Salmond's Jurisprudence.
Austin, Lectures, omitting chapters on Utilitarianism.
Lorimer's Institutes.

Amos, Science of Law.
Woolsey, Political Ethics.
Lieber, Political Ethics.
Freeman, Comparative Politics.
Aristotle's Politics, by Jowett.

APPENDIX.

The attention of intending Students is called to the following provisions of the Revised Statutes of Quebec and amendments, as bearing on the requirements for the study and practice of Law in the Province.

I. Regulations Applicable to those who Intend to Become Members of the Bar.

Article 3544 R.S.Q.—Examinations for admission to study and to practise law in the Province of Quebec are held at the time and place determined by the General Council.

The examinations for the practice are held alternately in Montreal and Quebec every six months, namely—at Montreal, on the second Tuesday of each January, and at Quebec on the first Tuesday of each July.

All information concerning all these examinations can be obtained from the General Secretary's Office. The present General Secretary is Arthur Globensky, Esq., K.C., 97 St. James St., Montreal.

Article 3546.—Candidates must give notice as prescribed by this article at least one month for the study and fifteen days for the practice before the time fixed for the examination to the Secretary of the Section in which he has his domicile or in which he has resided for the past six months.

The present Secretary of the Montreal Section is Paul Lacoste, Esq., 7 Place d'Armes, Montreal.

Article 3503a. (added by Statute of Quebec, 1890, 53 Victoria Cap. 45). This article provides that Candidates holding the Diploma of Bachelor of Arts, Bachelier-ès-Lettres, or Bachelier-ès-Sciences from a Canadian or other British University are dispensed from the examination for admission to study. Such Candidates are required to give the notice mentioned above.

Article 3548 R.S.Q. (as altered by by-law of the General Council).—On giving the notice prescribed by Article 3546,

the Candidate pays the Secretary a fee of $2, and makes a deposit of $45 for a complete certificate of admission to study; of $30 for a partial certificate of admission to study; and of $70 for admission to practice, which deposit, less $10, is returned in case of his not being admitted.

Article 3552 (amended 1894, Q. 57 Vic., c. 35).—To be admitted to practice, the Student must be a British subject, and must have studied regularly and without interruption during ordinary office hours, under indentures before a Notary as Clerk, or Student with a practicing Advocate, during four years, *dating from the registration of the certificate of admission to study.* This term is reduced to three years in the case of a student who has followed a regular law course in a University or College in this Province and taken a degree in law therein.

The By-Laws passed by the General Council of the Bar of the Province of Quebec, 16th Sept., 1886, and amended 10th Feb., 1892, provide as follows:—

Art. 42.—A course of lectures on law given and followed at a University or College in this Province, and a diploma or degree conferred on students by such University or College, shall be held to be such as contemplated in Art. 3552 R.S.Q. only when the University or College conferring the degree and the student who receives it shall have efficiently followed the programme herein set forth. This article and article 44 shall apply to students already admitted only as regards lectures to be given after the 1st of January, 1887.

2. The subjects on which lectures shall be given, and the number of lectures required on each subject for a regular course of lectures on law in a University or College shall be as follows:—

Roman Law:—103 Lectures:—This subject shall include an introduction to the study of Law and the explanation of and comments on the Institutes of Justinian and the principal jurisconsults of Rome.

Civil, Commercial, and Maritime Law:—413 Lectures:—Lectures on these subjects shall cover at least three years. They consist of the history of French and Canadian law, the explanation of and comments on the Civil Code of the Province of Quebec and the Statutes relating to Commerce and Merchant Shipping.

Civil Procedure:—103 Lectures:—Lectures on this subject shall extend over at least two years. It shall consist of the explanation of and comments on the Code of Civil Procedure and the Statutes amending it, the organization of the Civil Courts of this Province and the history of the different judicial systems of the country; also, the special modes of procedure provided by statutes and laws of general application.

International Law, Private and Public:—21 Lectures:—

Criminal Law:—69 Lectures:—This subject includes the history of criminal law in Canada, the constitution of criminal courts, criminal procedure, comments on statutes relating to criminal law, the relation of criminal law in Canada to the criminal law of England. The lectures shall extend over two years.

Administrative and Constitutional Law:—41 Lectures. —These subjects include an inquiry into the different political institutions and the public institutions of the country, the powers, organization and procedure of the Federal Parliament and of the Local Legislature, the laws on Education and the Municipal Code.

Art. 43.—Candidates for practice who hold a degree in law from a University or College in this Province shall produce with their notices, a certificate from the principal or rector of such University or College to the effect that they followed a course of lectures on law in the same, during at least three years, in conformity with the by-laws of the Bar; and such certificate shall further specify the number of public lectures at which they shall have attended on each subject mentioned in the foregoing programme, during each of the said three years. The last part of this certificate shall only be required for courses of lectures given after the 1st January, 1897.

Art. 44.—The examiners shall not consider a university degree in law valid for the purposes of admission to the Bar if they find that the candidate has not in fact followed the programme above.

I. Regulations Applicable to those who Intend to Become Notaries.

For the regulations applicable to the candidates for the Notarial Profession see Revised Statutes of Quebec, Arts. 3801-3833, and 53 Vict., c. 45 Queb.).

TIME TABLE.

SESSION 1904-1905.

FIRST YEAR STUDENTS.

Wednesday, 21st Sept., to Friday, 18th November—9 Weeks.

Hours.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.
8.30	Obligations. Mr. A. Geoffrion	Procedure. Mr. Gordon Macdougall.	Obligations.	Procedure.	Obligations.
4.00	Roman Law. The Dean.	Rom.	Rom.	Rom.	Constitutional Law. The Dean.
5.00	Legal History. Prof. McGoun.	Persons. Mr. Gordon Macdougall.	Hist.	Persons.	Hist.

Monday, 21st Nov., to Thursday, 22nd Dec.—5 weeks.

Hours.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.
8.30	Obligations.	Procedure.	Obligations.	Proced.	Obligations.
4.00	Roman.	Rom.	Rom.	Rom.	Const.
5.00	Real Rights. Prof. Marler	Persons.	Persons.	Persons.	Real Rights.

Wednesday, 4th Jan., to Friday, 3rd March—9 weeks.

Hours.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.
8.30	Obligations.		Obligations.		Obligations.
4.00	Roman.	Roman.	Rom.	Rom.	Rom.
5.00	Real Rights. Three Weeks.	Constitutional Law. The Dean.	Real Rights.	Const.	Real Rights.

Monday, 6th March, to Friday, 31st March—4 weeks.

Hours.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.
8.30					
4.00	Roman.	Const.	Rom.	Const.	Rom.
5.00	Criminal Law. Prof. Mr. Justice Davidson.	Crim.	Crim.		Crim.

Roman Law	115 lectures.	Criminal	10 lectures.
Legal History	25 "	Constitutional and Administrative Law	39 "
Persons	25 "		
Real Rights	25 "	Total	314
Procedure	25 "		
Obligations	50 "		

TIME TABLE.

SESSION 1904-1905.

SECOND AND THIRD YEAR STUDENTS.

WEDNESDAY, 21ST SEPT., TO FRIDAY, 18TH NOVEMBER—9 WEEKS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
8.30	Successions. Prof. Mr. Justice Doherty.	Civ. Procedure. Mr. Ryan.	Successions.	Civ. Proced.	Successions.
4.00	Prescription, &c Prof. Mr. Justice Fortin.	Prescription, &c.	Obligations. Advanced Course. The Dean.	Prescription, &c.	Prescription, &c.
5.00	Criminal Law. Prof. Mr. Justice Davidson.	Commercial Law. Prof. R. C. Smith	Crim.	Comm. Law.	Crim.

MONDAY, 21ST NOV., TO THURSDAY, 22ND DEC.—5 WEEKS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
8.30	Successions.	Civ. Proced.	Successions.	Civ. Proced.	Successions.
4.00	Prescription, &c Prof. Mr Justice Fortin.	Prescription, &c.	Obligations.	Prescription, &c.	Prescription, &c.
5.00	Criminal.	Commercial Law.	Crim.	Comm. Law.	Crim.

WEDNESDAY, 4TH JAN., TO FRIDAY, 3RD MARCH—9 WEEKS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
8.30	Successions 5 wks Civ. Proced. 4 weeks.	Corporations, &c. Prof McGoun.	Successions Civ. Proced.	Corporations, &c.	Successions, Civ. Proceed.
4.00	Real Property Law. Prof. Marler. 6 weeks. N.B. This course will begin after the completion of Prof. Marler's course to the first year.	Obligations.	Real Property Law.	Obligations.	Real Property Law.
5.50	Public Int'r. nat. Law. Prof. Lafleur	Commercial Law. Prof. R. C. Smith	P. I. L.	Comm. Law.	P. I. L.

MONDAY, 6TH MARCH, TO FRIDAY, 31ST MARCH—4 WEEKS.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
8.30	Corporations, &c	Civ. Proced.	Corporations, &c.	Civ. Proced.	Corporations, &c.
4.00	R. P. L.		R. P. L.		R. P. L.
5.00	Commercial Law.	P. I. L.	Comm. Law.	P. I. L.	Comm. Law.

Successions	50 lectures	Criminal Law	40 lectures
Commercial Law	50 "	Procedure	40 "
Corporation &c	25 "	International	25 "
Real Property Law	25 "	Obligations	40 "
Prescription	25 "		
Lease and Municipal Land	25 "	Total	345

Faculty of Medicine.

I.

Foundation and Early History.

The Seventy Third Session of this Faculty will be opened on Tuesday, September 20th, 1904, by an introductory lecture at 3 p.m. The regular lectures in all subjects will begin on September 21st at the hours specified in the time-tables, and will be continued until May 20th, 1905. The annual examinations will begin one week later.

A special notice will be sent to all students, and, where deemed necessary, to their parents and guardians, before the beginning of the Session 1904-05, pointing out the importance of early attendance, in the hope of securing the presence of all students on the opening day of the session.

The Faculty of Medicine of McGill University is the direct outcome and continuance of a teaching body known as the Montreal Medical Institution which was organized as a full medical school in the years 1823-24 by Drs. Wm. Robertson, Wm. Caldwell, A. F. Holmes, John Stephenson and H. P. Loedel. These men constituted the first medical staff of the Montreal General Hospital, itself established in 1819. The first session of the Montreal Medical Institution opened in November, 1824, with 25 students, and the lectures were given at the House of the Institution, No. 20 St. James Street, a building situate on the north side of St. James Street, on or near Place d'Armes.

In the year 1829, the Montreal Medical Institution became, by the formal act of the Governors of the Royal Institution for the Advancement of Learning, the Medical Faculty of McGill University. It was a condition of the bequest of the late Hon. James McGill that the college must be in operation within a certain number of years of his decease; failing this, the money and the Estate of Burnside on which the college was to be built, were to pass to the heirs-at-law, the Desrivières

family. To enable this essential condition to be realized, the Montreal Medical Institution, then an active teaching body of established reputation, was "engrafted upon" the University of McGill College as its Medical Faculty. This event took place at the first meeting of the Governors of "Burnside University of McGill College," held at Burnside House June 29th, 1829, with the object of organizing the University. The first session of the McGill Medical Faculty took place in the winter of 1829-30, and the first university degree, a medical one, was conferred four years later in 1833.

There were no sessions held during the political troubles of 1836 to 1839, and it is owing to this fact that this is the Seventy-third instead of the Seventy-sixth Session of the Faculty, dating from its incorporation with the University in the year 1829.

In 1844 the number of students in the Medical Faculty was 50: in 1851, 64 with 15 graduates; in 1872-73, 154 with 35 graduates; in 1892-93, 315 with 46 graduates; in 1895-96, 419 with 90 graduates; in 1901-02, 440 students were registered.

After carrying on the work for some years on St. James Street, the Faculty removed to a house on St. George Street, near Craig Street, where they remained until 1845. From 1845 to 1851 they occupied the central part of the present Arts Building, which with the East Wing was the only part of the present Arts Building then standing. The remote situation of the University grounds was found to be a source of great inconvenience to both teachers and students, and the Faculty returned to the heart of the City, to No. 15 Coté Street, for the Session 1851-52. This building was erected for the uses of the Faculty at the private expense of three of its members, who held the Faculty as their tenants until 1860, when the University authorities took over the Coté Street building, at the same time enlarging it at a cost of some $4,100.00, to meet the increased demands of the rapidly growing medical school. The Faculty remained on Coté Street until 1872 when the need of extension was again felt and the front block of the present medical building in the University Grounds was provided by the Governors.

In 1885 this building of 1872, which, as has been said, constitutes the front block of the present building, was again found to be inadequate and an addition was built at the rear, which at the time afforded all the facilities for carrying out

the great aim of the Faculty—that of making the teaching of the primary branches thoroughly practical.

Owing to the larger classes and the necessity for more laboratory teaching, the Lecture Rooms and Laboratories added in 1885 soon became insufficient in size and equipment to meet the requirements of the Faculty. The late Mr. John H. R. Molson with timely generosity came to the aid of the Faculty, and in 1893 purchased property adjoining the college grounds, and enabled the Faculty to erect new buildings and extensively alter and improve those already in use.

These wings were completed and officially opened by His Excellency, the Earl of Aberdeen, Visitor of the University, January 8th, 1895. They were erected as an extension of the old building, towards the northwest, partially facing Carlton Road, and convenient to the Royal Victoria Hospital. They connected the Pathological building, the private residence acquired by Mr. Molson in 1893, with the older buildings, and comprised a large lecture room, capable of accommodating 450 students, with adjoining preparation-rooms and new suites of laboratories for Pathology, Histology, Pharmacology and Sanitary Science. The laboratories, etc., in the older buildings were also greatly enlarged and improved.

On the ground floor the Library and Museum were enlarged. The original library of the building erected for the Faculty by the Governors in 1872 was furnished as a reading room for the use of the students, and the extensive reference library of the Faculty was thus for the first time made available for the use of the students.

On this floor were also the Faculty room, the Registrar's office, the special museum for Obstetrics and Gynaecology, together with Professors' rooms, etc. The chemical laboratories were increased by including the laboratories formerly used by the department of Physiology.

In the basement were the janitor's apartments, cloak rooms with numerous lockers for use of students, the lavatory, etc., recently furnished with the most modern sanitary fittings.

In less than five years the extension of the practical laboratory work and the increase in the number of students and teachers made an enlargement of the buildings almost imperative. Before, however, the want of space and equipment was very seriously felt Lord Strathcona generously provided means to meet the requirements.

The New Buildings.

The Faculty has great pleasure in announcing that the new Medical Buildings were formally opened by H.R.H. the Prince of Wales, September 19th, 1901, and are now complete and fully equipped. They are the gift of Lord Strathcona, who in the names of Lady Strathcona and the Hon. Mrs. Howard in 1898, contributed $100,000 towards extensions and alterations of the Medical Buildings. These buildings, the result of this munificent donation, have more than twice the capacity of the buildings occupied during the Session of 1900-1901.

The alterations and extensions may be described as consisting of three wings. First, a Laboratory wing. This wing occupies the north-east corner of the block of buildings and replaces what was formerly the Pathology wing. A second wing connects this with the front building on the east, and the third wing connects the Molson block with the original building on the west side.

The central wings extend east and west about 70 feet and form the central feature of what is now a symmetrical block of cut stone buildings. It will be seen that the stone and brick extensions, erected by the Faculty in 1885, have been entirely removed and replaced by these substantial structures. The alterations and extensions now completed form the larger portion of a scheme of complete reconstruction and extension which will ultimately lead to the replacing of the original stone building now remaining by a façade which will project into the University grounds to the south of the buildings and so convert the whole into a single symmetrical structure.

The new building is of four stories except in the front block, where the three original stories remain. The total length of the buildings, as will be seen by the plan, is 280 feet and the maximum width 145 feet. Its cubic capacity is about 1,750,000 cubic feet, making it the largest of the buildings on the University campus.

The ground floor contains the lavatories, locker rooms, furnace rooms, vat rooms, rooms for stores and janitor's dwelling. In the laboratory wing there is a large recreation room for students, a students' laboratory for pharmacology and therapeutics, a research laboratory and a private room connected with this department.

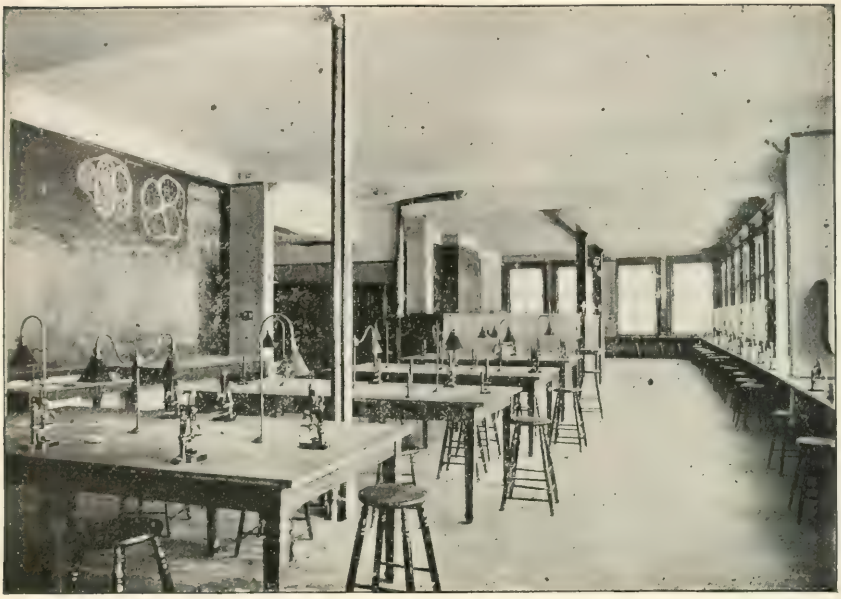
The first floor, of which a plan has been inserted, contains to the right and left of the entrance, occupying the whole floor

of the original building, a students' Library Reading-room, with accommodation for 200 readers, and the Pathological Museum. The students' reading room is connected with a fireproof stack room which contains the valuable library of the Faculty. This stack room has a capacity of 40,000 volumes, the Library at present containing about 24,000. The Pathological museum on the opposite side of the hall connects with rooms beneath the seats of Lecture Room No. IV. which are used for special collections and for curator's rooms. Four small rooms adjoining are for the use of professors as private rooms. On the opposite side of the hallway in the central section of the building are the professors' common room, the Faculty room and the offices of the Registrar.

The most striking feature in the construction of the building is the large central hall or rotunda extending from the ground floor through the three stories to the roof, lighted by skylight occupying the whole length of the middle section. This hall is 70 feet long by 45 feet wide, with galleries at each floor, connecting the various laboratories and lecture rooms with broad staircases at each end.

The northern section contains the Chemical Laboratory, 80 feet long by 45 feet wide, and the ceiling 20 feet high, surrounded with draft cupboards, and having benches for 150 to 180 students. Connected with this room is a commodious research laboratory for advanced work in medical chemistry, and a small professor's laboratory. On the opposite side of the hall is a large lecture room with a seating capacity of from 400 to 450, the museum preparation room, a small cloak room and preparation rooms connected with the lecture room.

The floor above in the two southern sections is devoted entirely to Anatomy. The dissecting room occupying the top of the front building remains unchanged, and is connected on the west with a series of demonstrators' rooms, a private dissecting room and two rooms for the professor of this department. These rooms surround Lecture Room No. II., especially arranged for lectures in Anatomy. On the opposite side of the hall, occupying the same area as the lecture room and adjoining rooms is the Anatomical Museum. Intervening between this and the dissecting room on the east side are a small demonstration room, locker rooms and service rooms connected with the department of Anatomy.



Laboratory of Normal Histology.

Medical Buildings.—Laboratory of Hygiene.

In the northern section are the museum for Hygiene and the Hygiene laboratory. These rooms extend the whole distance across the east and west wings.

On the top floor are the departments of Physiology, Pathology, Bacteriology and Histology. The department of Pathology and Bacteriology has a laboratory of the same dimensions as the chemical laboratory, 80 x 45 feet, especially well lighted with three large roof lights in addition to the lights on both sides. Besides the tables, lockers, etc., provided for students in this department, there is a small demonstrating theatre and a series of small rooms for advanced work and for special purposes. These include a dark room, an incubator room, reference library and three private laboratories. On the opposite side of the hall, occupying a similar floor area, are the laboratories for Physiology, consisting of a students' laboratory which has been especially equipped this year with sets of apparatus for the practical study of the principles of physiology by the graphic method. Connecting the students' laboratory with lecture room No I., to be used for Physiology chiefly, are a series of four rooms for advanced work and special research, service rooms and store rooms.

Occupying the entire northern end of this floor is the Histological laboratory with an adjoining room for private work. This laboratory is 105 feet long and affords space for the use of 150 microscopes at one time.

The laboratory wing is ventilated by a system of artificial ventilation, a powerful fan supplying each laboratory with warm fresh air, while extraction flues, to which extraction fans are attached, draw off the foul air from each room in this wing.

It will thus be seen that the new buildings of the Medical Faculty contain four lecture rooms, three of which have a seating capacity of 250, the fourth from 400 to 450. There are five museums, namely, for Pathology, Anatomy, Obstetrics and Gynaecology, Pharmacy and Hygiene. Other collections are being made and space has been arranged for their accommodation.

Extensive locker rooms have been arranged so that at a nominal cost each student may have a locker for himself. Lockers are also provided in connection with each of the large laboratories in which the students are required to keep their own material, instruments, etc.—as for instance, in connection

with the dissecting room and the laboratories for Pathology and Bacteriology. In addition to the large reading room of the Library and the recreation room on the ground floor of the Laboratory wing, a small reading room is provided for the use of students and controlled by the Students' Medical Society, in which are kept the daily papers, periodicals, etc.

II.

Matriculation.

For particulars of the University Matriculation, see p. 15.

Intending students are reminded that a University degree in Medicine does not always give a right to practice the profession of Medicine. It is necessary to conform with the Medical laws of the country or province in which it is proposed to begin practice. Each province in Canada at present has its special requirements for its license and in most provinces a special standard of general education is insisted upon before beginning the study of Medicine.

The requirements for those who intend to practice in any of the provinces of Canada, or in Great Britain, etc., are as follows:—

A. General Council of Medical Education and Enregistration of Great Britain.

A license from this body entitles the holder to practice in England, Ireland, Scotland and all colonies except the various provinces in Canada. The Matriculation Examination in Medicine of this University, as described on pp. 41-45, is accepted by the General Medical Council. Graduates of this University desiring to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance on lectures, practical work and clinics are also accepted by the various examining boards in Great Britain. To obtain a licence from the General Council it is necessary for all Canadian graduates to pass one of the examining boards of Great Britain in both primary and final subjects.

Detailed information may be obtained from one of the three registrars: Henry E. Allen, B.A., 299 Oxford Street, London; W. J. Robertson, 54 George St., Edinburgh; S. W. Wilson, 35 Dowson St., Dublin.

B. The Province of Quebec.

No University Matriculation Examination is accepted by the College of Physicians and Surgeons of this Province. Graduates in Arts of any British or Canadian University are however exempted from examination on presentation of their Diplomas.

Those who pass the Preliminary Examinations described below, or Graduates in Arts who register as students in the C. P. & S., Quebec, *on beginning their studies in Medicine*, obtain on graduating from McGill University a license to practice in Quebec without further examination in any professional subject.

Graduates who have registered with the General Council of Great Britain are at present admitted to practice without examination.

The requirements for the Matriculation Examination of the Province of Quebec for 1904 are:—

LATIN.—Cæsar's Commentaries, Bks. IV., V., VI.—Virgil's Aeneid, Bks. V., VI.—Cicero *Pro Milone*, with a sound knowledge of the Grammar of the Language.

ENGLISH.—For *English-speaking* candidates.—A critical knowledge of one of Shakspere's plays, viz., The Merchant of Venice, for 1904, with English Grammar, Etymology and Analysis.

For *French-speaking* candidates.—Translation into French of passages from the first eight books of Washington Irving's Life of Columbus, with questions on grammar. Translation into English of extracts from Fénélon's Télémaque.

FRENCH.—For *French-speaking* candidates.—A critical knowledge of Racine's "Athalie" and La Fontaine's Fables, Bks. I., II., III.,with questions on Grammar and Analysis.

For *English-speaking* candidates.—Translation into English of passages from Fénélon's Télémaque, with questions on Grammar. Translation into French of easy English extracts.

BELLES LETTRES AND RHETORIC.—Principles of the subject. History of the Literature of the age of Pericles in Greece, of Augustus in Rome, and of the 17th, 18th and 19th centuries of England, and France.

HISTORY.—Outlines of the History of Greece and Rome, and particular knowledge of the History of Britain, France and Canada.

GEOGRAPHY.—A general view, with particular knowledge of Britain, France and North America.

ARITHMETIC.—Must include Vulgar and Decimal Fractions, Simple and Compound Proportion, Interest and Percentages, and Square Root.

ALGEBRA.—Must include Fractions and Simultaneous Equations of the First Degree.

GEOMETRY.—Euclid, Bks. I., II., III., IV. and Book VI., or the portion of plane Geometry covered by those Books. Also the measurement of the lines, surfaces and volumes of regular geometrical figures.

CHEMISTRY.—Outlines of the subject as in P. Würtz, Troost, or Roscoe.

BOTANY.—Outlines as in Moyen, Provancher, Laflamme, or Spotton.

PHYSICS.—Outlines as in Peck-Ganot's Physics.

PHILOSOPHY.—Elements of Logic as in Jevon's Logic; Elements of Philosophy, as in Professor Murray's Hand-Book of Psychology.

The examinations will be held in September, 1904, at Quebec, and in June, 1905, at Montreal. Applications to be made to Dr. J. A. Macdonald, No. 1 Belmont Street, Montreal, or to Dr. C. R. Paquin of Quebec, who will furnish schedule giving text-books and percentage of marks required to pass in each subject.

Examination Fee, twenty dollars. Should the candidate be unsuccessful, one-half of the fee will be returned on first failure.

Of the four years' study, *after* having passed the Matriculation Examination, three six months' sessions, at least, must be attended at a University, College or Incorporated School of Medicine recognized by the "Provincial Medical Board." The first session must be attended during the year immediately succeding the Matriculation Examination, and the final session must be in the fourth year.

Students wishing to register degrees in Arts must do so before the 15th of September of the year in which they begin the study of Medicine in order to obtain a license as soon as they graduate from the University.

C. The Province of Ontario.

Everyone desirous of being registered as a matriculated medical student in the register of the College of Physicians and Surgeons of this Province, except as hereinafter provided, must present to the Registrar the official certificate of having passed the "Departmental Pass Arts Matriculation Examination," and in addition Physics and Chemistry—whereupon he shall be entitled to be so registered upon the payment of twenty dollars and giving proof of his identity.

Graduates in Arts of any University in His Majesty's dominions, are not required to pass this examination, but may register their names with the Registrar of the College, upon giving satisfactory evidence of their qualifications, and upon paying the fee of twenty dollars.

A certificate from the Registrar of any chartered University conducting a full Arts course in Canada, that the holder thereof matriculated prior to his enrolment in such University, and passed the examination in Arts prescribed for students at the end of the first year, shall entitle such student to registration as a medical student under *The Ontario Medical Act.*

Every medical student, after matriculating, shall be registered in the manner prescribed by the Council, and this shall be held to be the beginning of his medical studies, which shall date from that registration. To become a Registered Practitioner in this province four years' attendance at a recognized Medical School is required, and a fifth year to be spent in hospital or laboratory work must elapse before the final examination is granted.

Students are examined in all the subjects of a medical curriculum by the Examining Board of the C. P. & S. of this province at three examinations, a primary (II. year), an intermediate (IV. year), and a final (V. year).

Full details may be obtained on application to Dr. R. A. Pyne, Registrar, Cor. Bay and Richmond Sts., Toronto.

D. The Province of New Brunswick.

The matriculation requirements of this province are:—

1. English Grammar, Composition, Literature and Rhetoric.
2. Arithmetic, including vulgar and decimal fractions, extraction of the square and cube root and mensuration.
3. Algebra, to the end of quadratic equations.
4. Geometry, first three books of Euclid.
5. Latin, first two books of Virgil's Æneid, or three books of Cæsar's Commentaries, translation and grammar.

6. ELEMENTARY MECHANICS of solids and fluids, comprising the elements of statics, dynamics and hydrostatics.

7. ELEMENTARY CHEMISTRY.

8. CANADIAN AND BRITISH HISTORY, with questions in modern geography.

9. TRANSLATIONS and grammar of any two of the following languages: *Greek*, *French* and *German*.

In order to pass, a candidate must make an average of sixty per cent., with a minimum of forty per cent. in any one subject.

Dr. Stewart Skinner, of St. John, N.B., is the Registrar of the Council of Physicians and Surgeons of this province, and will furnish details on application.

To become registered as a practitioner in this province it is now necessary to pass examinations in all the Professional Branches.

E. Province of Nova Scotia.

The regulations of the Provincial Medical Board of this province for 1903-1904 were as follows:

PRELIMINARY EXAMINATION AND REGISTRATION.

1. No person shall begin or enter upon the study of medicine, for the purpose of qualifying himself to practise the same in this province, unless he first produces to the Registrar a certificate from the examiners appointed by the Board to show that he has passed the Preliminary Examination in the subjects prescribed by the Rules and Regulations of the Board, or evidence of having passed such equivalent examination as is accepted by the Board, and unless he causes his name to be forthwith entered in the Medical Students' Register as hereinafter specified (Rule 15).

2. No candidate shall be admitted to the Preliminary Examination unless at least fourteen days previous to such examination he has given notice to the Registrar of the Board of his intention to present himself for such examination, and unless he has produced to the Registrar satisfactory evidence that he has completed his sixteenth year and has paid a fee of ten dollars ($10.00) to the Registrar.*

3. The Preliminary Examination † will embrace the following subjects, viz.:—

(1) ENGLISH. (a) *Language*: Grammar, Analysis, Parsing.
(b) *Rhetoric and Composition* including an essay on one of several set subjects from prescribed authors.‡
(c) *Literature*: History of English Literature; critical study of prescribed authors. ‡

(2) ARITHMETIC. Complete.

(3) ALGEBRA. Simple Rules; Rules for the treatment of Indices; Surds; Extraction of Square and Cube Roots; Equations of the First Degree; Quadratic Equations of one unknown quantity.

(4) GEOMETRY. Euclid, Books I.,II., III., with easy deductions.

(5) HISTORY AND GEOGRAPHY. British and Canadian History with questions in General Geography.

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* This fee shall not be returned in case of failure.

† For copies of previous examination papers ($1.00 one entire set) apply to Registrar Provincial Medical Board.

‡ English authors for 1903. Kingsley's *Heroes*, Byron's *Childe Harold*, Canto I, Macaulay's *Lays*, and *Essay on the Elder Pitt*.

(6) LATIN. (a) *Translation* from prescribed books with questions arising out of those books, and translation of easy passages not taken from such books.*

(b) *Grammar.*

(c) *Composition.*

(7) One of the following:

GREEK. (a) *Translation* from prescribed books, with questions arising out of those books, and translation of easy passages not taken from such books. †

(b) *Grammar,* as in Elementary Grammars.

(c) *Composition,* as in Frost's Greek Primer.

FRENCH. *Translation* from prescribed books with *Grammar* Questions limited to the Accidence, and based upon the passages prescribed for translation. ‡

GERMAN. *Translation* and *Grammar,* as under French. ||

4. Examinations take place twice a year, beginning on the first Thursday in May and the last Thursday in August.

On the same dates local examinations will be held, on application, at Sydney, C.B., Pictou, N.S., and at Yarmouth, N.S. Candidates taking local examinations are required to pay an additional fee of $2.00.

5. Except where otherwise specified, the books prescribed by the Council of Public Instruction for the course leading to the grade B of High School Junior Leaving Examinations are recommended.

6. In order to pass, a candidate must make fifty per cent. of marks in each subject.

7. If fifty per cent. is made in all subject but one, and if in that subject the candidate shall have made at least 25 per cent. he may begin study, and attend for one medical year at any medical college recognized by the Board, and thereafter present himself for examination in that subject alone, without payment of any additional fee, except in cases of candidates taking local examinations, who will be required to pay the usual $2.00 fee for such examination.

8. A candidate failing in more than one subject, or failing to make 25 per cent. in any subject, may not begin professional study, but will be required to appear again for examination in all subjects. The fee for examination in such cases will be $5.00, (or $7.00 if a local examination be taken).

9. Certificates will be issued to successful candidates, showing the subjects in which they have passed, and the extent to which their knowledge of these subjects was tested.

10. Candidates who have passed the above examination will be admitted without further preliminary examination at all Canadian and American Colleges.

11. This examination also satisfies the requirements of the General Medical Council of Great Britain as to the preliminary examination which must be passed by persons wishing to register as medical students, provided the candidate shall have passed in all subjects at one examination.

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* Latin for 1904. *Caesar,* De Bello Gallico, Book V, with *Virgil,* Aeneid, Book II.

† Greek for 1904. Xenophon Anabasis, Book III.

‡ French for 1904. Voltaire's, Charles XII, Books I, II, III.

|| German for 1904. Buchheim's, German Reader, Part I.

EXEMPTIONS.

12. Graduates in Arts or Science of any recognized College or University are not required to submit to this examination.

13. The Medical Board will also recognize *pro tanto* the following examinations :

(1) The Matriculation or the Sessional Examinations of any chartered University or College approved by the Board, including McGill University.

(2) The Entrance Examination of the Nova Scotia Barristers' Society.

(3) The Examinations for Teachers' Licenses, Grade A or B of Nova Scotia, with 60 per cent. in required subjects.

(4) The Examinations for Junior or Senior High School Leaving Certificates of Nova Scotia, with 60 per cent. in required subjects.

(5) The Examinations for Honour, First or Second Class Ordinary Diplomas, as issued by the Prince of Wales College, P.E.I., with 60 per cent. in required subjects.

(6) The Examinations for First or Second Class Teachers' Licenses of Prince Edward Island, with 60 per cent. in required subjects.

(7) The Examinations for First Class, or Grammar School Licenses of New Brunswick, with 60 per cent. in required subjects

(8) The examinations for corresponding Licenses or Leaving Examination Certificates issued by the Education departments of the other provinces of Canada, with 60 per cent. in required subjects.

(9) The Matriculation or Preliminary Examinations of any Medical Licensing Board or Council authorized by law in His Majesty's Dominions, with 50 per cent. in each subject.

14. After passing his preliminary examination, the medical student may then enter upon his professional course at any University, Medical School or College approved by the Board.

REGISTRATION.

15. *Immediately* after entering upon his course every person engaged in the study of medicine for the purpose of qualifying himself to practise in the Province of Nova Scotia shall forthwith cause to be entered in the register of the Board kept by the Registrar and called the Medical Students' Register, his name, age, place of residence, date and particulars of his preliminary examination, and place and date of his commencement of the study of Medicine,

16. The fee for such registration is ten dollars ($10.00), except that candidates who already have paid $10.00 for the Matriculation Examination are not required to pay any additional fee.

17. Every student must spend a period of at least four years in actual professional study subsequent to his having passed the preliminary or Matriculation Examination and being registered as a medical student; and the prescribed period of study shall include four collegiate sessions of at least eight months duration each year.

18. Professional examinations will be held twice during the year, one beginning in the *months of April*, the other in *September*.

19. Notwithstanding the Regulations (Chap. III.—Professional Examinations) during the year 1902 and until further notice, any candidate for the License of the Board who produces to the Registrar satisfactory certificates of having passed in the subjects of first and second Professional Examinations at a regular Medical College or University recognized by the Board, will be exempted from further

examinations in each subjects, and shall be required to pass only the subjects of the third Professional Examination (Chap. III., Sec. 16-22).

The fee for the third Professional Examination under the above conditions will be thirty-five dollars ($35 00), which will entitle successful candidates to the benefits of Chap. 14 , Sec. 22 equally and to the same extent as is provided in said section for candidates who have taken all the examinations and paid the usual fees.

20. Any person who produces to the Registrar satisfactory evidence to show that as a student in Arts or Science connected with any recognized University or College, he has attended a satisfactory course in Physics, Chemistry or Practical Chemistry, previous to his registration as a medical student, such course or courses will be accepted by the Board as exempting from further attendance in such subject or subjects and a certificate of having as such Arts or Science Student previous to his registration or as a regular medical student subsequent to such registration, passed an examination in either or all of these subjects equivalent to that required by the Board, will be accepted as exempting from further examination in any or all of said subjects.

21. With regard to hospital attendance the requirement has been reduced from twenty-four to eighteen months, and six months attendance on the out patient department of a general hospital or on the practice of a recognized dispensary will be accepted as an equivalent portion of such eighteen months.

Prince Edward Island.

The requirements of this province are the same as for New Brunswick and there is reciprocity with both New Brunswick and Nova Scotia.

The subjects of the examination are as follows:—

1. English Grammar, Composition, Literature and Rhetoric.

2. Arithmetic, including vulgar and decimal fractions and extraction of the square and cube root and mensuration.

3. Algebra, to the end of quadratic equations.

4. Geometry, first three books of Euclid.

5. Latin, first two books of Virgil's Æneid, or three books of Cæsar's Commentary, translation and grammar.

6. Elementary Mechanics of solids and fluids, comprising the elements of statics, dynamics and hydrostatics, and elementary chemistry.

7. Canadian and British History, with questions in modern geography.

8. Translation and grammar of any two of the following subjects: *Greek, French, German.*

Fifty per cent. of the marks in every subject shall be required for a pass, and 75 per cent. for honours.

Province of Manitoba.

The matriculation examination of McGill University is accepted by this province. The province holds an examination once each year. The following are the fixed requirements :—(1) Latin, (2) Mathematics, (3) English, (4) History, (5) Botany, (6) Physics. Subjects 1, 2, 3, 4 the same as required for the Arts Matriculation of Manitoba

University, Parts I. and II., and the same standard shall be required to enable the candidate to pass.

Details of this examination can be obtained from the Registrar of the University of Manitoba.

British Columbia.

The College of Physicians and Surgeons of the province does not hold an examination in general education but accepts the examinations recognized by the various boards and universities of the Dominion.

This province examines all candidates for a license in the professional branches ,both primary and final. For dates of these examinations see almanack at beginning of the Medical Calendar. Dr. C. J. Fagan, Victoria, B.C., is the Registrar and Secretary of the Council.

North-West Territories.

The College of Physicians and Surgeons of the North-West Territories has no standard of matriculation. It accepts that of any Canadian Board or University.

According to the Amended Medical Ordinances (1900), a licentiate of any province in Canada may register and practice in the North-West Territories on payment of the special fee and without examination.

J. D. Lafferty, M.D., Calgary, Alberta, is the Registrar. The dates fixed for examinations will be found in the almanack.

Newfoundland.

The Newfoundland Medical Board has a standard of preliminary education equivalent to that required by the General Council of Medical Education of Great Britain.

The requirements for 1902-1903 were as follows:

Compulsory.

ENGLISH LANGUAGE.—Including grammar, composition and literature.
ARITHMETIC.—Including vulgar and decimal fractions, and the extraction of the square root.
ALGEBRA.—To the end of simple equations.
GEOMETRY.—Euclid, books i, ii, iii, with easy questions on the subject matter of the same.
LATIN.—Including grammar, translation from specified authors, and translation of easy passages not taken from such authors. †
ELEMENTARY MECHANICS of Solids and Fluids. ‡

Optional. §

HISTORY OF BRITISH AMERICA.—With questions in modern geography.
HISTORY OF ENGLAND.—With questions of modern geography.
FRENCH.—Translation and grammar.
GERMAN.—Translation and grammar.
GREEK.—Translation and grammar. ||
MAGNETISM AND ELECTRICITY.
CHEMISTRY.

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† Latin for 1904, *Cæsar* Gallic War, Book I, or *Virgil*, Æneid Book I.
‡ As in Blackie's Elements of Dynamics, or an equivalent.
§ In communicating with the Registrar, students will please state the optional subject chosen.
|| Greek for 1904, *Xenophon*, Anabasis, Book I; or Hellenica, Book I.

(*a*) The Board will not, in future, accept any certificate of passing the matriculation or preliminary examination in general education, unless the whole of the subjects included in the matriculation or preliminary examination required by the Council for registration of students of medicine have been passed at the same time.

(*b*) Provided that a certificate of having passed a University examination required for graduation in Arts, or a senior or a higher local University examination, or an Intermediate grade examination of the Council of Higher Education of Newfoundland, or of the Grade I. license for teachers of Newfoundland, wherein the specified subjects of general education are included, may be recognized for the purpose of registration.

In order to pass a candidate must make fifty per cent. of marks in each subject.

Certificates will be issued to successful candidates showing the subjects in which they passed, and the extent to which their knowledge of these subjects was tested.

Candidates who have passed the above examination will be admitted without further preliminary examination at all Canadian and American Colleges.

TEXT-BOOKS.—Except when otherwise specified the books prescribed by the Council of Higher Education are recommended.

III.

Fees.

See pages 33 and 34.

IV.

Qualification for the Degree.*

1st. No one will be admitted to the Degree of Doctor of Medicine and Master of Surgery who shall not have attended Lectures for a period of four nine months' sessions in this University, or some other University, College or School of Medicine, approved of by this University.

2nd. Students of other Universities so approved and admitted on production of certificate to a like standing in this University shall be required to pass all Examinations in Primary and Final Subjects in the same manner as students of this University.

3rd. Graduates in Arts who have taken two full courses in General Chemistry, including Laboratory work, two courses in

* *It shall be understood that the programme and regulations regarding courses of study and examinations contained in this calendar hold good for this calendar year only, and that the Faculty of Medicine, while fully sensible of its obligations towards the students, does not hold itself bound to adhere absolutely, for the whole four years of a students' course, to the conditions here laid down.*

Biology, including the subjects of Botany, Embryology, Elementary Physiology and dissection of one or more types of Vetebrata, may, at the discretion of the Faculty, be admitted as second-year students, such courses being accepted as equivalent to the first year in Medicine. Students so entering will, however, not be allowed to present themselves for examination in Anatomy until they produce certificates of dissection for two sessions.

4th. Candidates for Final Examination shall furnish Testimonials of attendance on the following branches of Medical Education.

Provided, however, that Testimonials equivalent to, though not precisely the same as those above stated, may be presented and accepted :—

Anatomy. **Practical Anatomy,** **Physiology,** **Chemistry,** **Pharmacology and Therapeutics.** **Principles and Practice of Surgery,** **Obstetrics and Diseases of Infants,** **Theory and Practice of Medicine,** **Clinical Medicine.** **Clinical Surgery,**	**Of which Two full Courses will be required.**
Medical Jurisprudence. **General Pathology.** **Hygiene and Public Health,** **Practical Chemistry.** **Ophthalmology and Otology,** **Gynæcology.**	**Of which One full Course will be required.**
Biology. **Histology.** **Pathological Anatomy.** **Bacteriology,** **Mental Diseases,** **Pediatrics,** **Medical and Surgical Anatomy,**	**Of which One Course will be required†.**

Students enregistered in the Province of Quebec are required to attend and pass examinations in Laryngology and Minor Surgery.

He must also produce Certificates of having assisted at six Autopsies, of having dispensed Medicine for a period of three months, and of having assisted at twenty Vaccinations.

5th. Courses of less length than the above will only be received for the time over which they have extended.

6th. No one will be permitted to become a candidate for the degree who shall not have attended at least one full Session at this University.

7th. The candidates must give proof of having attended during at least twenty-four months the practice of the Montreal General Hospital or the Royal Victoria Hospital or of some other hospital of not fewer than 100 beds, approved by this University. Undergraduates are required to attend only the practice of the Out-Patient departments of the Hospitals during their second year.

8th. He must give proof of having acted as Clinical Clerk for six months in Medicine and six months in Surgery in the wards of a general hospital recognized by the Faculty, of having reported at least 10 medical and 10 surgical cases.

9th. He must also give proof by ticket of having attended for at least nine months the practice of the Montreal Maternity or other lying-in-hospital approved of by the University, and of having acted as assistant at least six cases.

10th. Every candidate for the degree must, on or before the 15th day of May, present to the Registrar of the Medical Faculty testimonials of his qualifications, entitling him to an examination, and must at the same time deliver to the Registrar of the Faculty an affirmation of affidavit that he has attained the age of twenty-one years.

11th. The trials to be undergone by the candidate shall be in the subjects mentioned in Section 4.

12th. The following oath of affirmation will be exacted from the candidate before receiving his degree:

Sponsio Academica.

In Facultate Medicinæ Universitatis.

Ego, A——— B———, Doctoratus in Arte Medica titulo jam donandus, sancto coram Deo cordium scrutatore, spondeo:—me in omnibus grati animi officiis erga hanc Universitatem ad extremum vitæ halitum perserveraturum ; tum porro artem medicam caute, caste, et probe exercitaturum; et quoad in me est, omnia ad ægrotorum corporum salutem conducentia cum fide procuraturum; quæ denique inter medendum, visa vel audita silere conveniat, non sine gravi causa vulgaturum. Ita praesens mihi spondenti adsit Numen.

13th. The fee for the Degree of Doctor of Medicine and Master of Surgery shall be thirty dollars, to be paid by the successful candidate to the University Bursar immediately after examination.

V.

Examinations.

Frequent oral examinations are held to test the progress of the student, and occasional written examinations are given throughout the Session.

The **Pass** and **Honor** examinations at the close of each Session are arranged as follows:—

First Year.

Examinations in **Biology, Histology, Physiology, Anatomy, Chemistry, Practical Chemistry and Elementary Bacteriology.**

Students who have taken one or more university courses in Biology or Chemistry before entering may be exempted from attendance and examination. Students exempted in these First Year subjects are allowed only a pass standing, but may present themselves for examination if they desire to attain an honour standing. Students exempted from First Year Chemistry must take Second Year Chemistry in their First Year.

Second Year.

Examinations in **Anatomy, Chemistry, Practical Chemistry, Physiology, Practical Physiology, Pharmacology** and **Histology.**

Third Year.

Examinations in **Pharmacology** and **Therapeutics, Medical Jurisprudence, Public Health** and **Preventive Medicine** (including **Bacteriology**), **General Pathology, Clinical Chemistry, Clinical Microscopy, Obstetrics, Medicine** and **Surgery.**

Fourth Year.

Examinations in **Medicine, Surgery, Obstetrics, Gynæcology, Ophthalmology, Mental Diseases, Clinical Medicine, Clinical Surgery, Clinical Obstetrics, Clinical Gynæcology, Clinical Ophthalmology** and **Practical Pathology.**

By means of the above arrangement a certain definite amount of work must be accomplished by the student in each

year, and an equitable division is made between the Primary and Final branches.

A minimum of 50 per cent. in each subject is required to pass and 75 per cent. for honors.

Candidates must pass in all the subjects of each year; those who fail to pass in not more than two subjects of either the First, Second or Third Years, may be granted a supplemental examination at the beginning of the following session.

Supplemental examinations will not be granted, except by special permision of the Medical Faculty, and on written application stating reasons, and accompanied by a fee of $5.00 for each subject.

No candidate will be permitted, without special permission of the Faculty, to proceed with the work of the Final Year until he has passed all the subjects comprised in the Primary examination.

No student will be allowed to present himself for his Final examinations who has not certificates of having passed all his Primary examinations in this University.

Candidates who fail to pass in a subject of which practical courses are required may, at the discretion of the Faculty, be required to repeat the course, and furnish a certificate of attendance thereon. A course in Practical Anatomy will be accepted as equivalent to a third course of lectures in General and Descriptive Anatomy.

VI.

Fellowships, Medals and Prizes.

1. Fellowships.—The Faculty has begun to establish Teaching and Research Fellowships in connection with the various laboratories.

These fellowships are of a value of five hundred dollars per annum, are open only to graduates in Medicine, and are tenable for three years.

Two are now established in connection with the department of Pathology—a Governor's Fellowship endowed by one or two of the Governors of the University, and a Faculty Fellowship established by the Faculty. Other Fellowships will be announced as they are established.

2. Medals.—The "**Holmes Gold Medal**," founded by the Medical Faculty in the year 1865, as a memorial of the late

Andrew Holmes, Esq., M. D., L.L.D., late Dean of the Faculty of Medicine. It is awarded to the student of the graduating class who receives the highest aggregate number of marks in the different branches comprised in the Medical Curriculum.

The student who gains the Holmes' Medal has the option of exchanging it for a Bronze Medal, and the money equivalent of the Gold Medal.

"**The Sutherland Gold Medal**," founded in 1878 by the late Mrs. Sutherland in memory of her late husband, William Sutherland, M.D., formerly Professor of Chemistry in this Faculty. It is awarded for the best examination in General and Medical Chemistry, together with creditable examination in the Primary branches. The examination is held at the end of the Third Year.

3. PRIZES.—**The Final Prize.**—A Prize in books (or a Microscope of equivalent value) awarded for the best examination, written and oral, in the Final branches. The Holmes' medalist is not permitted to compete for this prize.

The Third Year Prize.—A Prize in books awarded for the best examination, written and oral, in the branches of the Third Year.

The Second Year Prize.—A Prize in books for the best examination in all the branches of the Second Year in course.

The First Year Prize.—A Prize in books for the best examination in all the branches of the First Year in course.

The "**Clemesha Prize in Clinical Therapeutics**," founded in 1889 by John W. Clemesha, M.D., of Port Hope, Ont. It is awarded to the student making the highest marks in a special clinical examination.

VII.

Text Books.

ANATOMY.—Gray, Morris, Quain (Eng. Ed.) Gerrish and Cunningham.
PRACTICAL ANATOMY.—Cunningham's Practical Anatomy, Ellis Demonstrations, Holden's Dissector and Landmarks

PHYSICS.—Carhart and Chute: Medical Physics, Daniel; Ref. Medical Electricity: Balfour Stewart.

INORGANIC CHEMISTRY.—Holleman, Richter 5th ed., Remsen.

ORGANIC CHEMISTRY.—Remsen.

PHARMACOLOGY AND THERAPEUTICS.—Cushney, Hare, Wood, Sollmann, Stevens.

PHYSIOLOGY.—Foster and Shore's Physiology for Beginners, Mills' Text-Book of Animal Physiology, Foster's Physiology, G. N. Stewart's Physiology, Mills' Class Laboratory Exercises.

GENERAL PATHOLOGY.—Sidney Martin, Delafield & Prudden, Ziegler.

SPECIAL PATHOLOGY.—Stengel, American Text-book.

BACTERIOLOGY.—Muir & Ritchie, McFarland, Macé (French).

LABORATORY HANDBOOKS.—Mallory & Wright, H. W. Cattell (Post-mortem Pathology); Anderson's laboratory guide: Eyre (Bacteriological Technique).

HISTOLOGY.—Klein's Elements, Schafer's Essentials of Histology, Stohr, Szymonowicz.

SURGERY.—Walsham, Treves, American Text-Book of Surgery, Da Costa, Rose & Carliss, Warren & Gould.

PRACTICE OF MEDICINE.—Osler, Tyson, Wood and Fitz, J. M. Anders.

CLINICAL MEDICINE.—Musser's Medical Diagnosis, Simon, Klemperer, Rainey and Hutchison, Vierodt's Medical Diagnosis.

MEDICAL JURISPRUDENCE.—Reese, Guy and Ferrier, Mann, Chapman's Manual of Medical Jurisprudence.

MENTAL DISEASES.—Insanity and its Treatment, Blandford, 4th Ed.

NERVOUS AND MENTAL DISEASES.—Church and Peterson, 2nd ed. Atlas of the Nervous System and its Diseases, Jacob.

OBSTETRICS.—Jewett, Hirst, American Text-Book and Evans' Pocket Text-Book.

DISEASES OF CHILDREN.—Holt, Rotch, Dawson, Williams.

GYNAECOLOGY—Hart and Barbour, Dudley on Diseases of Women, Montgomery.

HYGIENE.—Davies, Wilson, Rohe, Whitelegge, Harrington, Abbott's Transmissible Diseases.

BIOLOGY, BOTANY.—Gray's Text-Book of Histology and Physiology; ZOOLOGY, Shipley and MacBrides' Introduction to Zoology.*

OPHTHALMOLOGY.—De Schweinitz, Nettleship and Swanzy.

OTOLOGY.—Pritchard, Dalby.

RHINOLOGY AND LARYNGOLOGY.—Watson Williams; Posey and Wright (Diseases of Nose and Throat, Vol. II.); Diseases of Nose and Throat by Charles H. Knight, M.D.

OPERATIVE SURGERY.—Jacobson, Treves, Kocher.

DERMATOLOGY.—Malcolm Morris, Hyde, Crocker, Stellwagon.

MEDICAL DICTIONARY.—Gould, Dunglison, Hoblyn.

* Each student will be required to pay $4.00 in order to cover the cost of a class book, dissecting instruments and other necessaries which are supplied to him and become his property.

VIII.

TIME TABLES FOR THE SESSION 1903-1904.

Time Tables for the Session 1904-1905 will be issued to students with their Lecture Room tickets at the time of registration.

TIME TABLE OF FIRST YEAR.

LECTURES.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.	Lecture Theatre.
*Anatomy Demonstrations	9	9	9	9	9	.....	Anatomy Demonstration theatre.
Physiology	4	4	.....	4	3	.....	Winter & Spring Terms No. 1.
Medical Physics	2	.....	2	2	.....	.....	Autumn Term No. III.
Chemistry	.....	2	2	2	.....	.....	Winter & Spring Terms No. III.
Biology	.....	2	.....	.....	2	.....	Autumn Term Redpath Museum.
Bacteriology	3	.....	.....	.....	.....	.....	Spring Term No. I.
LABORATORY WORK.							
Practical Anatomy	10–1	10–1	10–1	10–1	10–1	9–1	Aut. & Win. Terms
*Prac. Physiology	2–4	.....	3–5	.....	.....	.....	Win. & Sp. Terms.
*Prac. Histology	.....	.....	4–6	.....	4–6	9–12	Win. & Sp. Terms.
*Prac. Chemistry	10–12	10–12	10–12	10–12	10–12	9–11	Winter Term.
*Prac. Biology	.....	3–6	.....	.....	3–6	.....	Biological Laboratory, Arts Bld'g. Autumn Term.
*Prac. Bacteriology	3–5	.....	.....	....	3–5	.....	Spring Term.

* Class taken in divisions.

TIME TABLE OF SECOND YEAR.

LECTURES.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.	Lecture Theatre.
Anatomy	9	9	9	9	9	.....	Autumn & Winter Terms No. II.
Physiology	2	.....	2	.....	2	.....	No. I.
Chemistry { Organic	3	.....	3	.....	3	.....	Autumn Term No. III.
Chemistry { Applied Medical	.....	.....	.....	....	3	.....	Winter & Spring No. III.
Pharmacology and Therapeutics	4	.....	4	.....	.....	.....	No. II.
LABORATORY WORK.							
Practical Anatomy	10–1	10–1	10–1	10–1	10–1	10–1	Autumn & Winter Terms.
†Applied Medical Chemistry	9–12	9–12	9–12	9–12	9–12	9–12	Spring Term.
†Prac. Physiology	.....	2–5	.....	2–5	.....	.....	Throughout Session.
†Prac. Histology	.....	4–6	.....	4–6	.....	9–12	Autumn Term.
†Demonstrations and Laboratory Work, Pharmacology	.....	2–4	.....	2–4	.....	.....	Throughout Session.

† Half the class only.

NOTE.—Students of the second year are required to attend Medical and Surgical Clinics and Demonstrations at M. G. H. and R. V. H. spring term in groups.

Certificates required for graduation.

TIME TABLE OF THIRD YEAR.

LECTURES	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.	Lecture Theatre.
Obstetrics	9	.....	9	.....	.....	.....	Winter & Sp. Term No. III
Medicine	.....	10	11-12	10	.....	.....	No. IV
Surgery	10	.....	*12-1	.....	10	.....	No. IV
Jurisprudence	11	.....	.....	11	.....	.....	Fall & W. Term No. IV
Pharmacology and Therapeutics	.....	9	.....	9	.....	.....	No. IV
General Pathology and Bacteriology	.....	.....	10	.....	9	.....	Win. & Sp. No. III
	.....	.....	9	.....	9	.....	Aut. Term No. III
Hygiene	.....	.....	4	.....	.....	.....	Winter Term
	11	.....	.....	11	.....	.....	Spring Term
* Morbid Anatomy	.....	.....	.....	.....	.....	§9-11	
Clinical Medicine	2 RVH	1 p.m. MGH	.....	2 p.m. RVH	1 MGH	.....	
Clinical Surgery	1 MGH	2 RVH	.....	1 MGH	2 p.m. RVH	.....	
Practical Pathology	4-6	4-6	.....	4-6	4-6	.....	Winter Term, Path. Lab.
‡Clinical and Sanitary Chemistry	4-6	4-6	.....	4-6	4-6	.....	Autumn Term, Chem. Lab.
‡Bacteriology	4-6	4-6	.....	4-6	4-6	.....	Autumn Term, Path. Lab.
‡Clinical Microscopy	4-6	4-6	.....	4-6	4-6	.....	Spring Term, Path. Lab.
‡Practical Hygiene	.....	.....	.....	.....	.....	.....	Win. & Spring Terms Hyg. Lab.
‡†Operative Surgery	5-6	5-6	5-6	5-6	5-6	5-6	Dissecting Room, Spring Term.

* Alternate weeks, M.G.H. and R.V.H. † Optional. ‡ Classes taken in groups.
§ Weekly for alternate months R.V.H. and M.G.H.

TIME TABLE OF FOURTH YEAR.

LECTURES.	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.	Lecture Theatre.
Obstetrics	9	.....	9	.....	9	.....	Fall Term No. IV
	.....	.....	.....	.....	9	.....	Win. & Spring, No. IV
Gynæcology	.....	9	.....	9	.....	.....	No. IV
Mental Diseases	.....	11	.....	11	.....	.....	Spring Term, No. III
Medicine	.....	10	11 12	10	.....	.....	Fall & Win., No. III
Surgery	10	.....	12-1	.....	10	.....	No. III
Med. and Sur. Pathology	9	.....	.....	.....	.....	.....	Win. & Spring, No. IV
Ophthalmology	.....	.....	.....	.....	.....	.....	No. IV
Medical and Surgical Anatomy	3	.....	.....	.....	.....	.....	Autumn Term No. IV
Children's Diseases	.....	.....	.....	.....	3	.....	Win. Term No. IV
*Out Patients' Clinics	11-12 12-1	11-12 12-1	11-12	11-12 12-1	11-12 12-1	11-12	M. G. H. R. V. H.
Clinical Medicine	 1	1	....	 1	1	....	R. V. H. M. G. H.
Clinical Surgery	 2	1	....	 2	1	....	M. G. H. R. V. H.
Gynæcological Operations	....	 1	4	....	....	....	M. G. H. R. V. H.
*Clinical Ophthalmology	3	3	3	....	 3	....	M. G. H. R. V. H.
†Gynæcological Clinics	....	4 5	....	4 5	....	 11	M. G. H. R. V. H.
Morbid Anatomy	.....	.....	.....	.....	.....	§9-11	
Clinical Obstetrics	.....	.....	.....	.....	.....	1-2 3rd	Maternity Hospital.
*Dermatological Clinic	.....	.....	2	.....	.....	11	M. G. H.
Genito-Urinary Clinic	.....	.....	.....	.....	.....	3	R. V. H.
Diseases of Children Clinic	4	.....	.....	4	.....	.....	M. G. H.
*Laryngology	4	 3	....	....	4 2	....	M. G. H. R. V. H.

* In groups of eight or ten. † In groups of four. ‡ Alternate weeks M.G.H. and R.V.H.
§ Weekly for alternate months M.G.H. and R.V.H.

IX.

COURSES OF LECTURES.

The Corporation of the University on the recommendation of the Faculty of Medicine, in 1894, consented to the extension of the courses of lectures in medicine over a period of about nine months instead of six.

By this means, (1) The students of the primary years have a greater opportunity of becoming acquainted, by laboratory work, with those branches of study which form the scientific basis of their profession, and (2) the final students will be enabled to utilize to better advantage the abundance of clinical material provided in the two Hospitals.

By this arrangement the actual number of didactic lectures per session was decreased, but a corresponding increase was made in the amount of tutorial work and individual teaching in the laboratories for Chemistry, Physiology, Anatomy, Pathology, and Bacteriology, as well as giving more time for clinical work in the Royal Victoria and Montreal General Hospitals, and a greater number of ward classes were also made possible during the session.

The Faculty expects, by thus increasing the time that the different professors, lecturers and demonstrators devote to each student, to accomplish two very important ends: first, to do away with the injurious effects which result from attempting to condense the teaching of medicine and surgery into four or even five sessions of six months; second, to give each student a sounder and more thoroughly practical knowledge of his profession than could be obtained by attending during even five sessions of six months each.

Anatomy.

PROFESSOR:—FRANCIS J. SHEPHERD.

ASSISTANT PROFESSOR:—J. G. McCARTHY.

LECTURERS:—
J. A. SPRINGLE.
R. TAIT McKENZIE.

DEMONSTRATORS:—
J. A. HENDERSON.
J. J. ROSS.
A. E. ORR.

ASSISTANT DEMONSTRATORS:—
R. A. WESTLEY.
H. M. CHURCH.
A. T. BAZIN.
A. MACKENZIE FORBES.
C. K. P. HENRY.
A. R. PENNOYER.

Anatomy is taught in the most practical manner possible, and its relation to Medicine and Surgery fully considered. The lectures are illustrated by the fresh subject, moist and dry preparations, sections, models, plates and drawings on the blackboard. Frequent examinations are also held.

A course of practical demonstrations in Medical, Surgical and Topographical Anatomy is also given in the final year of the course.

The department of *Practical Anatomy* is under the direct control and personal supervision of the Professor of Anatomy, assisted by his staff of Demonstrators.

The methods of teaching are similar to those of the best European schools, and students are thoroughly grounded in this branch.

Every student must be examined *at least* three times on each part dissected, and no certificate is given unless the examinations are satisfactory.

Special Demonstrations on the brain, thorax, abdomen, bones, etc., are frequently given. Prizes are awarded at the end of the Session for the best examination on the fresh subject.

The Dissecting Room is open from 9 a.m to 6 p.m. In consequence of the excellent Anatomy Act of the Province of Quebec, abundance of material can always be obtained.

Chemistry.

PROFESSOR:—R. F. RUTTAN.

LECTURER:—J. R. ROEBUCK.

LABORATORY ASSISTANT:—O. R. MABEE.

The Department of Medical Chemistry is situated on the ground floor of the laboratory wing of the new building. The Students' Laboratory, 80 by 45 feet, with ceiling 22 feet high, has recently been completely equipped, and has benches and sets of apparatus for 180 students. Adjoining this Laboratory is a smaller one for post-graduate teaching in medical chemistry and for advanced work, and a balance room in which is a reference library for the use of the staff and graduates employed in special work.

The lecture room for chemistry on the opposite side of the hall has four rooms connected with it, in which lecture experiments are prepared, and which are used for storing apparatus, preparations, etc., required for the lectures on chemistry and physics.

The course in medical chemistry is a graded one.

First Year:—During the autumn term of the first year a short course of lectures in medical physics is given. These lectures are fully illustrated by experiments. The students, taken in groups, are required to study by experiments in the laboratory the more important phenomena of heat, sound, light and electricity. Lectures and demonstrations on the principles of chemistry are given three times per week during the winter and spring terms. Examinations are held at Christmas on medical physics, and in June on the theory of chemistry.

Laboratory instruction in practical chemistry is given during the winter term, six hours per week. This course includes the experimental study of the laws of chemical action, the properties of typical elements and compounds, and a short course in qualitative analysis. Special attention is directed to instructing the students in keeping an accurate record of his observations and conclusions. These notes are examined daily and criticised.

Second Year:—A course of lectures and demonstrations, three per week, is given on Organic Chemistry in the autumn

term, and an examination is held at Christmas. During the winter and spring terms lectures and demonstrations are given on the application of chemistry to clinical diagnosis, sanitation and medical jurisprudence.

Laboratory work in clinical and applied medical chemistry is required during the spring term. An examination in applied medical chemistry, practical and theoretical, is held in June.

Students will find it greatly to their advantage to have a knowledge of elementary chemistry before entering upon the study of medicine. Graduates in arts of recognized universities, on presenting certificates of having taken courses in theoretical and practical chemistry and physics, and of having passed examinations in the same, may be exempted from the chemistry of the first year.

Physiology.

THE JOSEPH MORLEY DRAKE PROFESSOR:—WESLEY MILLS.
ASSISTANT PROFESSOR—W. S. MORROW.
LECTURER:— A. A. ROBERTSON.
DEMONSTRATOR:— A. H. GORDON.

The purpose of this course is to make students thoroughly acquainted, as far as time permits, with modern Physiology; its methods, its deductions and the basis on which the latter rest. Accordingly a full course of lectures is given, in which the physical, the chemical, and other aspects of the subject receive attention.

In addition to the use of diagrams, plates, models, etc., every department of the subject is illustrated experimentally. The laboratory work for students has been greatly increased and during the season of 1901-1902 apparatus to the value of over three thousand dollars was added to the students' laboratory.

Laboratory work for Senior Students:—

(1.) During a part of the Session there will be a course on Physiological Chemistry, in which the student will, under direction, investigate food stuffs, digestive action, blood, and the more important secretions and excretions, including urine. All the apparatus and material for this course will be provided.

(2.) The remainder of the Session will be devoted to the performance of experiments (other than chemical) to illustrate important physiological principles.

Laboratory of Physiology.

Laboratory work for Junior Students:—

This will be somewhat similar to the course for Senior students, but simpler and anatomico-physiological rather than chemical: like the work for Second Year Students its main object will be the illustration of principles.

The new Physiological Laboratory has been fitted up so as to permit of eighty students engaging in work at one time. The fittings and equipments of each bench are of the latest designs and are well adapted to their purpose. The apparatus was especially made by the best American and European makers and thoroughly tested before being accepted.

Each pair of students is supplied with all the apparatus necessary to carry out the work of verifying a large number of the leading principles of physiology and registering the results by the graphic method.

Provision is also made for a course in Physiological Chemistry, covering foodstuffs, digestion, the animal fluids, etc.

The experience of the past session has fully justified expectations in regard to the Laboratory and the courses prescribed.

For the purposes of group and class demonstration, other and more complicated apparatus is available, and will be added to as necessity requires.

Additional rooms are provided, seven in number, for a departmental library and professor's office, for preparation apartments, and workshop, and for physiological research.

Histology.

PROFESSOR:—GEO. WILKINS.

LECTURER:—N. D. GUNN.

DEMONSTRATORS:— WALTER M. FISK. H. B. CUSHING.

The teaching of Histology and Microscopical Methods is spread over two years. During both years practical instruction will be given upon the preparation and mounting of specimens. Students will also be required to make drawings of the specimens prepared by them.

For the First Year students, work will commence immediately after the Christmas holidays and continue until the end

of the session. The course will consist of laboratory work and demonstrations, with occasional lectures upon elementary and systematic histology up to and including the digestive system. At the end of the session a practical examination will be held on the work done.

During the Second Year a course of demonstrations and laboratory work together with lectures will be given on more advanced histology and an examination held at Christmas.

Biology.

D. P. Penhallow:—Professor of Botany.

E. W. MacBride:—Professor of Zoology.

The course in elementary Biology is designed to prepare for special study in medical subjects. Under the supervision of the professors of Botany and Zoology it will be given during the autumn term—Zoology first eight weeks; Botany last four weeks.

A.—Animal Biology.

In this course the fundamental properties of protoplasm will be discussed; the principles of the formation of tissues; the formation of organs; an outline of vertebrate structure and function, as exemplified by Paramoecium and Vorticella, Hydra, Lumbricus and the Dog-fish.

Two lectures and one laboratory period each week.

An optional course in Embryology, especially designed for medical students, is given by the Professor of Zoology, and is open to the students of the Medical Faculty.

B.—Plant Biology.

The course in Plant Biology will deal chiefly with the general properties of cytoplasm; the structure and nature of the plant cell; movement; nutrition; respiration; fixation of carbon; division of labor and origin of organs; evolution of plant forms. These principles will be illustrated in their more simple forms by a Myxomycete, Pleurococcus, Spirogyra and Oedogonium, Fucus, Saccharomyces and Pteris.

Two lectures and one demonstration each week, beginning on Monday, November 21st, 1904.

Pathology and Bacteriology.

PROFESSOR:—J. G. ADAMI.
ASSISTANT PROFESSOR:—A. G. NICHOLLS.
GOVERNORS' FELLOW:—OSKAR KLOTZ.
LECTURER IN PATHOLOGY:—J. MCCRAE.
DEMONSTRATOR IN BACTERIOLOGY:—H. B. YATES.
DEMONSTRATOR IN NEUROPATHOLOGY:—D. A. SHIRRES.
DEMONSTRATOR IN SURGICAL PATHOLOGY:—E. J. SEMPLE.
ASSISTANT DEMONSTRATOR IN PATHOLOGY:—E. A. ARCHIBALD.
ASSISTANT DEMONSTRATOR IN BACTERIOLOGY:—J. A. WILLIAMS.

The teaching, both didactic and practical, in the subjects of Pathology and Bacteriology, is given by the Professor of Pathology and his staff.

For the use of this Department an extensive series of laboratories has been set aside and is now in active use on the top floor of the new wing of the Faculty, and inasmuch as the old Pathological Laboratory was established and equipped by the late J. H. R. Molson, these new laboratories retain the name of the J. H. R. Molson Laboratories.

They consist of a large and admirably lighted class room for general classes capable of accommodating with ease 70 students at a time, so arranged that each student in the bacteriological and pathological courses does the microscopical work at one table and immediately behind him is his locker and bench for the preparation of material, preparation of culture media, etc. In this room at one end there is also a small demonstration theatre or quarter circle capable of accommodating the whole class at work in the laboratory at one time and used for demonstration purposes, and at the other end a service department from which are given out materials. Further arrangements are installed for lantern demonstrations for the whole class. The large laboratory is so arranged that the students can perform their practical work with the least amount of moving about the room, the students working in pairs and having all the necessary apparatus, reagents, etc., immediately by them. There are in addition a laboratory for advanced work and for special courses, with a set of six smaller research rooms for the use of members of the staff and those engaged in research, a dark room and an incubator room. The pathological library of the Professor is placed in the reading room of the department and is at the disposal, for consultation, of those working in the laboratory.

The following courses constitute the teaching in these subjects:—

1. A course of General Pathology for the students of the Third Year: optional for those of the Fourth Year. Lectures are delivered twice weekly throughout the winter and spring terms.

2. A course of Elementary Bacteriology for students of the First Year—eight lectures with demonstrations being given during the spring term.

3. A course of lectures upon Bacteriology in Relation to Disease, for students of the Third Year, given three times weekly during the autumn term.

4. A course of Demonstrations in the Performance of Autopsies to students of the Third Year. The demonstrations are held weekly from October until Christmas.

5. Demonstrations upon the Autopsies of the week to students of the two Final years. These are given during the Session by Drs. Adami and Nicholls at the Royal Victoria Hospital, and Drs. MacTaggart and McCrae at the Montreal General Hospital.

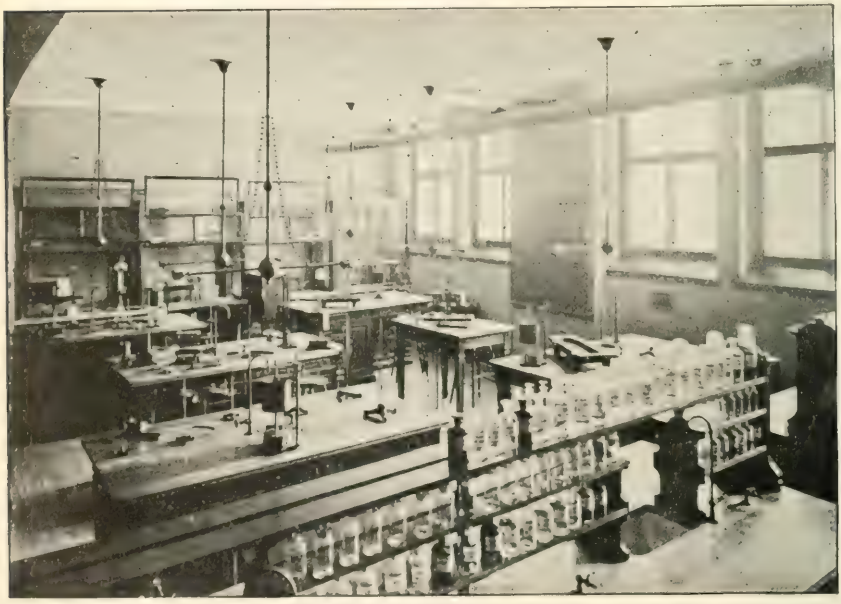
Practical Courses.

6. The performance of Autopsies. Each student is required to take an active part in at least six autopsies. These are conducted at the General and the Royal Victoria Hospitals. In addition to the actual performance of the *sectio cadaveris*, the students are expected to attend practical instruction given with each autopsy in the method of preparation and microscopical examination of removed tissues, so as to become proficient in the methods of preparation, staining and mounting.

7. A practical course in the Bacteriology of Infectious Diseases, for students of the Third Year. This course is held twice weekly during the autumn term.

8. A practical course in Morbid Histology to students of the Third Year. This is held twice weekly during the winter term. Students are instructed in the staining and mounting of specimens, and as a rule six sections are distributed at each meeting of the class so that each student obtains a large representative series of morbid tissues, altogether about 120 in number.

Medical Buildings.—Laboratory of Chemistry.



Laboratory of Pharmacology.

9. A course of demonstrations upon Morbid Anatomy, museum specimens, once weekly during the autumn and winter terms to students of the Fourth Year.

In addition to the above the staff of the department gives instruction to the more advanced students who desire to take any special work in the laboratories: this more especially during the vacations.

For this purpose a special set of rooms has been set apart for Post-Graduate and Advanced Instruction. Accommodation has been provided for classes of twelve to fifteen. In connection with these laboratories for advanced work there is a departmental reference library, rooms for photography, etc.

Optional courses are conducted by the demonstrators of Pathology and the demonstrator of Neuro-pathology during the Session. Classes in Clinical Pathology and Microscopy are given at the General and Royal Victoria Hospitals under the direction of the professors and lecturers in Clinical Medicine.

In connection with this Department, two Research and Teaching Fellowships have been established, one by the Faculty of Medicine and one by the Governors.

Pharmacology and Therapeutics

PROFESSOR:—A. D. BLACKADER.

ASSISTANT PROFESSOR:—J. W. SCANE.

LECTURER:—R. A. KERRY.

The lectures on this subject are graded in the following manner:—For students of the Second Year, there is (1) a three months' course on Practical Materia Medica and Pharmacy, with demonstrations and exercises in the laboratory. Prescription writing and the various modes of administering drugs are explained and illustrated; (2) a six months' course on the physiological action of drugs, with practical demonstration of the action of the more important ones. In the Third Year attention is directed to the Therapeutic Application of all the more important drugs and remedial measures, including Electricity, Hydrotherapy and Climatotherapy.

The Eddie Morrice Laboratory, comprising pharmacological and chemical research rooms, has, through the liberality of Mr. Morrice, been fully equipped, and in it during the session 1904-1905 an optional course of practical exercises in pharmacology will be given to advanced students.

Medical Jurisprudence.

PROFESSOR:—GEO. WILKINS.
LECTURER—MEDICO-LEGAL PATHOLOGY: D. D. MACTAGGART.

This course is treated of in its medical as well as medico-legal aspects. Special attention is devoted to the subject of blood stains, the chemical, microscopical and spectroscopic tests for which are fully described and shown to the class. The various spectra of blood in its different conditions are shown by the micro-spectroscope, so well adapted for showing the reactions with exceedingly minute quantities of suspected material. Recent researches in the diagnosis of human from animal blood are alluded to. In addition to the other subjects usually included in a course of this kind, Toxicology is taken up. The modes of action of poisons, general evidence of poisoning and classification of poisons are first treated of, after which the more common poisons are described, with reference to symptoms, post-mortem appearance and chemical tests. The post-mortem appearances are illustrated by plates, and the tests are shown to the class.

Hygiene.

STRATHCONA PROFESSOR:—T. A. STARKEY.

Owing to the endowment of the Department of Hygiene by the Right Honorable Lord Strathcona, a teaching Laboratory has been established in connection with the Chair of Hygiene. The compulsory course in Hygiene consists of two lectures per week, supplemented by demonstrations dealing with the practical application of Hygienic Principles as well as the Elementary Chemistry and Bacteriology of water, air, soil, foods and beverages. In addition, excursions are made periodically to inspect some point of Hygienic interest. The course also includes the hygiene of air, soil, water and climate; health resorts, personal hygiene, bathing, exercise, clothing, hygiene of special life periods; food and diet; food supply; food diseases and adulterations; hygiene of dwellings; heating, lighting and ventilation, sanitary fittings; municipal sanitation; water supply; sewage; drainage; refuse disposal; burial of the dead; hygiene of occupation, offensive trades; hygiene of hospitals, prisons, etc.; preventive medicine; methods of dealing with infectious diseases and epidemics;

communicable diseases of animals; organization of health boards; sanitary law and administration in relation to the medical practitioner; vital statistics in relation to the healthfulness of communities.

An optional practical course more advanced than the one above referred to, will be open to students wishing to go into higher detail.

Special courses of instruction are given to graduates wishing to qualify themselves in sanitary work, or to obtain the diploma in Public Health. "See Post-Graduate Practical Courses."

The Laboratory has been equipped with the apparatus needed in giving practical illustration in Hygiene either as demonstrations to large classes of students, or as practical work for smaller groups.

The museum and laboratory are equipped with working models and apparatus illustrative of application of hygienic principles.

The arrangement is as follows:—

The Hygiene Department occupies the entire north end of the building on the mezzanine floor, having the floor space corresponding with that of the Department of Histology. The main laboratory is 60 x 50 feet, and it is well equipped with apparatus for demonstrations and practical work in Hygiene. Adjoining it is a balance room and private laboratory, 13 x 15 feet. Opening off the main laboratory is the museum, about 45 x 30 feet, which is well stored with full sized specimens and working models illustrative of all branches of Public Health.

Medicine.

PROFESSOR:—JAMES STEWART.

ASSISTANT PROFESSORS:— F. G. FINLEY. H. A. LAFLEUR. C. F. MARTIN.

While the lectures on this subject are mainly devoted to Special Pathology and Therapeutics, no opportunity is lost of illustrating and explaining the general laws of disease. With the exception of certain affections seldom or never observed in this country all the important internal diseases of the body, except those peculiar to women and children, are discussed, and

their Pathological Anatomy illustrated by the large collection of morbid preparations in the University Museum, and by fresh specimens contributed by the Professor of Pathology.

The College possesses an extensive series of plates and models illustrative of the histological and anatomical appearances of disease, and the wards of the General and Royal Victoria Hospitals afford the lecturers ample opportunities to refer to living examples of very many of the maladies described, and to demonstrate the results of treatment.

Clinical Medicine.

PROFESSOR:—JAMES STEWART.
ASSOCIATE PROFESSORS:—F. G. FINLEY AND H. A. LAFLEUR.
ASSISTANT PROFESSOR:—C. F MARTIN.
LECTURERS:— G. GORDON CAMPBELL. W. F. HAMILTON. S. RIDLEY MACKENZIE.
ASSISTANT DEMONSTRATORS:— B. D. GILLIES. C. A. PETERS.

The instruction in Clinical Medicine is conducted in the theatres, wards, out-patient rooms and laboratories of the Royal Victoria and Montreal General Hospitals.

The courses include:—

I. The reporting of cases by every member of the Graduating Class, a certain number of cases being assigned to each student.

II. Bed-side instruction for members of the Graduating Class.

III. Clinics weekly in each hospital.

IV. Tutorial instruction for the Junior Classes, in the wards and out-patient rooms of both hospitals.

V. Instruction in Clinical Chemistry and Bacteriology.

Surgery.

PROFESSOR:—THOMAS G. RODDICK.
ASSISTANT PROFESSOR:—J. M. ELDER.
LECTURER:—A. E. GARROW.

This course consists of the principles and practice of Surgery and Surgical Pathology, illustrated by a large collection of preparations from the Museum, as well as by specimens obtained from cases under observation at the hospitals. The greater part of the course, however, is devoted to the Practice

of Surgery, in which attention is constantly drawn to cases which have been observed by the class during the session. The various surgical appliances are exhibited, and their uses and application explained. Surgical Anatomy and Operative Surgery form special departments of this course.

Clinical Surgery.

PROFESSOR:—JAMES BELL.

ASSOCIATE PROFESSOR:—GEORGE E. ARMSTRONG.

LECTURERS:— A. E. GARROW. J. A. HUTCHISON. J. M. ELDER.

DEMONSTRATOR:—KENNETH CAMERON.

ASSISTANT DEMONSTRATORS:— W. L. BARLOW. C. B. KEENAN. E. W. ARCHIBALD.

The teaching in Clinical Surgery is conducted at the Montreal General and Royal Victoria Hospitals.

I. In the amphitheatre of each of these hospitals, demonstrations are given and operations are performed before the Senior and Junior Classes on alternate days.

II. Small ward classes of about ten men in each are taken through the wards by the surgeon in attendance, and instruction given at the bedside concerning the nature and management of surgical cases, in each hospital, at least once per week. Similar classes are also taken into the wards daily by the Surgical Assistants for instruction in diagnosis and reporting.

III. Beds are assigned to students in rotation, and each student is required to carefully study and report cases and to assist in the surgical dressing of the same. Certificates of case reporting are given, and are essential to graduation.

IV. In the Out-patient department students have an exceptionally good opportunity to study a great variety of injuries, to witness operations in minor surgery, to come into personal contact with patients and to take part in the application of a variety of surgical dressings and appliances.

Obstetrics and Diseases of Infants.

PROFESSOR:—J. CHALMERS CAMERON.
LECTURER:—D. J. EVANS.
DEMONSTRATOR:—JAMES BARCLAY.
ASSISTANT DEMONSTRATOR:—H. R. D. GRAY.

This course will embrace: (1) Lectures on the principles and practice of the obstetric art, illustrated by diagrams, fresh and preserved specimens, the artificial pelvis, complete sets of models illustrating the deformities of the pelvis, wax preparations, bronze mechanical pelvis, etc. (2) Bedside instruction in the Montreal Maternity, including external palpation, pelvimetry, the management and after-treatment of cases. (3) A complete course on obstetric operations with the Tarnier-Budin phantom. (4) The diseases of infancy. (5) A course of individual clinical instruction at the Montreal Maternity.

The course is carefully graded and instruction is given separately to students of the Third and Fourth Years.

Particular attention is given to clinical instruction, and a clinical examination similar to that held in Medicine and Surgery, now forms an important part of the Final examination.

A short course of lectures on diseases of infancy is given, supplemented by clinical demonstration and ward work. The demonstrators give special demonstrations from time to time and take the students in groups for the purpose of examination and review.

Gynæcology.

PROFESSOR:—WM. GARDNER.
LECTURERS:—F. A. L. LOCKHART AND W. W. CHIPMAN.
DEMONSTRATOR:—J. D. CAMERON.
ASSISTANT DEMONSTRATOR:—DAVID PATRICK.

The didactic course is graded, and consists of from forty to forty-five lectures given at intervals alternating with the lectures on Obstetrics and extending throughout the session. The anatomy and physiology of the organs and parts concerned are first discussed. Then the various methods of examination are fully described, the necessary instruments exhibited, and their uses explained.

The diseases peculiar to women are considered as fully as time permits, somewhat in the following order:—Disorders of Menstruation; Leucorrhœa; Diseases of the External Gen-

ital Organs; Inflammations, Lacerations and Displacements of the Uterus; Pelvic Cellulitis and Peritonitis and Inflammation of the Ovaries and Fallopian Tubes; Benign and Malignant growths of the Uterus; Tumours of the Ovary; Diseases of the Bladder and Urethra. The lectures are illustrated as fully as possible by drawings and morbid specimens.

Clinical teaching, including out-patient and bed-side instruction is given at both the Royal Victoria and Montreal General Hospitals by Professor Gardner and Doctors Lockhart, Chipman and Cameron. A large amount of Clinical material is thus available for practical instruction in this department of medicine. Numerous operations are done before the class and made the subject of remarks. In addition to the ward-patients, each hospital conducts a large out-patient Gynaecological Clinic, to which advanced students are admited in rotation, and instructed in digital and bi-manual examination and in the use of instruments for diagnosis.

Particular attention is thus given to Clinical instruction, and a Clinical examination in Gynaecology similar to that held in Medicine and Surgery, now forms part of the Final examination.

Ophthalmology and Otology.

PROFESSOR:—F. BULLER.

LECTURERS:— J. J. GARDNER. J. W. STIRLING. W. G. M. BYERS.

This will include a course of from twenty-five to thirty didactic lectures on Opthalmology and Otology, delivered at the college buildings. In these will be discussed especially the methodical, clinical examination of the organs of sight and hearing, the classification and pathology of the diseases affecting them, and the general principles underlying the diagnosis and treatment of affections of the eye and ear.

Systematic clinical instruction will be given at the bi-weekly clinics in the out-patient departments of the General and Royal Victoria Hospitals where students have unexcelled opportunities for thoroughly grounding themselves in the work of these branches. The operative work of eye and ear surgery is fully open to undergraduates on days set apart for the purpose, and special courses for instruction in refractive work and the use of the opthalmoscope can also be arranged for times convenient to the teachers and students.

Laryngology and Rhinology.

PROFESSOR:—H. S. BIRKETT.
DEMONSTRATOR:—H. D. HAMILTON.
ASSISTANT DEMONSTRATORS:— G. K. GRIMMER. W. H. JAMIESON.

This course will consist of practical lessons in the use of the Laryngoscope and Rhinoscope. The instruction will be carried on with small classes, so that individual attention may be insured. A limited number of clinical lectures bearing upon interesting cases attending the clinic will be delivered during the session. These lectures will be, however, of an eminently practical nature.

Mental Diseases.

PROFESSOR:—T. J. W. BURGESS.

This course will comprise a series of lectures at the University on Insanity in its various forms, from a medical as well as from a medico-legal standpoint. The various types of mental diseases will be illustrated by cases in the Verdun Hospital, where clinical instruction will be given to visiting groups of Senior students at intervals throughout the session.

Diseases of Infants and Children.

PROFESSORS:— J. C. CAMERON. A. D. BLACKADER.

Although this subject does not constitute a special chair in the University, systematic instruction is given (*a*) in connection with the chair of Obstetrics and Diseases of Infants, by Prof. Cameron: (*b*) by a course of lectures, clinical and didactic, by Prof. Blackader; and (*c*) through the Children's Clinic at the Montreal General Hospital, at the Infants' Home, and at the Montreal Foundling and Baby Hospital.

Clinical Microscopy.

This course, which is given during the Spring Term of the Third Year, is essentially a practical one and is in charge of Professor C. F. Martin, assisted by Drs. W. F. Hamilton, G. G. Campbell, Ridley MacKenzie, C. F. Wylde and F. B. Jones. It is a laboratory course forming part of the Third Year instruction in medicine and is held in the Pathological Labora-

tory of the Medical Building. The classes are held twice weekly, each demonstration lasting two hours.

Students are given instruction in the microscopic appearances of normal and abnormal sediments in the urine, methods of examination of the blood in the fresh and dried state of preparation; minute appearances of the sputum, stomach contents and faeces, as well as of the various animal parasites of the alimentary tract.

In addition to this the student is given an opportunity of examining the various bacteria of importance in clinical medicine and surgery.

Various specimens of special interest which are found in the hospitals from time to time, are examined as occasion arises at the demonstrations.

X.

DOUBLE COURSES.

B.A. and M.D.

By special arrangement with the Faculty of Arts, it is now possible for students to obtain the double degree of B.A., and M.D., C.M., and also B.Sc. and M.D., after only six years of study.

Course Leading to B.A. and M.D.

It has been decided to allow the Primary subjects (Anatomy, Physiology and Chemistry) in medicine to count as subjects of the Third and Fourth Years in Arts. . It follows then that at the end of four years' study a student may obtain his B.A. degree and have two years of his medical course completed.

The remaining two years of study are devoted to the Third and Fourth Year subjects in Medicine.

The special provisions for Medical Students in the Arts course are as follows:—

During the first two years in the Faculty of Arts students taking the double course will complete their studies in Biology, Physics and Elementary Chemistry.

I.—*In the Third Year*:—

(*a*) Anatomy and Practical Anatomy, Histology and Physiology, of First Year Medicine.

(*b*) Two of the courses which are not placed under the heading "Science" in the Arts curriculum. The time tables of the two Faculties allow the following to be chosen:—

(1) French or Moral Philosophy or Economics.

(2) Political Science.

(*c*) Either one or two hours weekly in English Composition.*

II.—*In the Fourth Year*:—

(*a*) Anatomy and Practical Anatomy, Histology, Physiology, Chemistry, of Second Year Medicine.

(*b*) One hour weekly in English Composition, if only one has been taken in the Third Year.

B. Sc. (Arts) and M.D.

The Faculties of Arts and Medicine have organized a course of six years' study leading to the double degrees of Bachelor of Science (Arts) and Doctor of Medicine.

The requirements of this course are as follows:—

Matriculation.—The student who proceeds to the Double Course must pass a matriculation examination consisting of English, History, Mathematics (Part (1), French, German, and Latin.

First Year.—During the First Year the course will include English, French, German, Mathematics and Physics, of the first year of the B.A. Course.

Second Year.—During this year English of the second year B.A. Course, French, German, Chemistry and Elementary Biology. The course in Chemistry consists of three lectures per week and two laboratory periods of three hours. The Biology will consist up to Christmas of the Zoology of the Second Year in the Faculty of Arts, which is the same as that required of First Year students in Medicine with the morphology of the frog in addition. After Christmas (spring term Arts), the student may proceed either to a continued course in Animal Biology comprising the osteology of the rabbit and the histology of its tissues, or he may proceed with the Botany of the Second Year in the Faculty of Arts. This course in

* Note.—Students are recommended to distribute their English composition over two years.

Botany is introductory to the more specialized work of the Third Year, and will be represented by a number of types, including the flowering plants and the determination of species. Two lectures and two laboratory periods each week during spring term.

In the event of a student selecting Animal Biology after Christmas, he must have taken before Christmas the course in Biology as laid down for medical students, *i.e.*, both Zoology and Botany. If the student select Botany after Christmas, he must have taken Zoology of the second year in the B.Sc. Course, *i.e.*, the anatomy of the frog, in addition to that required of medical students.

Third Year.—The student will enter in the Third Year of his course upon the study of medical subjects proper, having a good theoretical and practical knowledge of Inorganic Chemistry, and will have had a more thorough training in Biology than at present can be given the regular students in medicine. The time, therefore, during this year, which in the regular medical curriculum is devoted to Chemistry, Practical Chemistry and Biology, will be available for Science subjects of the B.Sc. Course; and a student will have the option of four different branches of science, which shall in each case consist of a full regular course, together with one-half an honor course, the honor course to be given between September and Christmas.

(I) Zoology.—Two lectures during the week, and two laboratory periods of about two hours. This course takes up the study of parasitic forms, of comparative osteology and embryology. In addition to this is a half Honor Course, which will consist of a critical study of some such work as Verworn's General Physiology, or Spencer's General Biology.

(II) Physics.—Two lectures and one period of three hours laboratory work per week. The student may proceed either with Heat and Light, as in the third year Physics Course in Arts, or with Electricity and Magnetism constituting the fourth year Physics in Arts; or he may take a portion of each of these courses, and in addition would do advanced work constituting a half honor course from September to Christmas.

(III) Chemistry.—Two lectures per week and two laboratory periods—the time before Christmas to be devoted to Physical Chemistry, and during the second term to Organic

Chemistry, including organic preparations, with advanced work constituting a Half Honor course from September to Christmas.

(IV) Botany.—This course is designed to give a comprehensive knowledge of plant structure and relationships. The principles of development will be illustrated by type studies, which may also serve as the basis for more special work in Bacteriology, Physiology, Ecology or Paleobotany. It comprises:—(*a*) Microscopy, including determination of amplifications, micrometry, drawings, section cutting and preparation of microscopic objects. This work presupposes familiarity with the optics of the microscope as given in Physics "3" of the second year Arts; (*b*) critical studies of the Thallophyta and Pteridophyta, as illustrated by selected types. Two lectures and two laboratory periods each week throughout the session.

Students will also be required to take one-half of the honor work of the Fourth Year Arts in experimental plant Physiology, as based upon the following works:—

Pfeffer, Plant Physiology; MacDougall, Experimental Plant Physiology; Darwin and Acton, Practical Physiology of Plants. One lecture and four laboratory hours per week during autumn term.

It will be permitted also if a student so desires it, to substitute a half honour course in Chemistry, Physics, or Geology, for the half honour course in Botany.

In the fourth year of this six years' course, Wednesday afternoon and Saturday morning of each week will be available for laboratory work in connection with still more specialized study in the subject which has been selected during the third year; or a student may proceed with a branch of science other than the one selected for his third year work, provided he is sufficiently well grounded to enable him to do the special work which may be assigned to him.

Thus the first two years of the six years' course are devoted entirely to the Faculty of Arts, the student taking the option of Biology instead of Mathematics for the second year.

In the Third and Fourth Years work will be given partially in the Faculty of Arts and partially in the Faculty of Medicine. In the Third Year the studies in the two Faculties will be

nearly equal; in the Fourth Year they will be almost entirely in the Medical Faculty.

The Fifth and Sixth Years will be occupied by the regular curriculum of the Third and Fourth Years in Medicine.

To secure privileges connected with either of the double courses described above, certificates of registration in the Medical Faculty must be presented at the beginning of each year to the Dean of the Faculty of Arts; and at the end of each session in the first two years certificates of attendance on lectures and of passing the corresponding examinations must also be presented. At the end of the Third and Fourth Years certificates must be presented to show that the full curriculum of the Medical Faculty for the year has been completed.

A certificate of Licentiate in Arts will be given along with the professional degree in Medicine to those who, previous to entrance upon their professional studies proper, have completed two years in the Faculty of Arts, and have duly passed the prescribed examinations therein.

The Faculty of Medicine strongly recommends students to take an Arts course before beginning Medicine whenever possible, devoting special attention to Chemistry, Biology, Physics, and German. Should a student have but one year at his disposal he is advised to take Chemistry, Biology and Physics of the Faculty of Arts as a preliminary training for Medicine.

XI.

GRADUATE AND ADVANCED COURSES.

The Faculty of Medicine in 1896 established post-graduate and special courses in connection with the Montreal General and Royal Victoria Hospitals and the various laboratories in the University buildings. These courses will be continued in 1904-1905.

There will be two distinct sets of courses, one a short practical and clinical course for medical men in general practice who desire to keep in touch with recent advances in Medicine, Surgery and Pathology, and who wish special clinical experience in Gynæcology, Ophthalmology, Laryngology, etc. This course will last four weeks, beginning on the first of June.

A special detailed programme will be prepared, and will be sent on application in April next. The fee, including hospital fees for both hospitals, is forty dollars.

The other courses will be for those who have just completed their regular course in Medicine, and desire special Laboratory or Clinical teaching before beginning practice.

Arrangements have also been made to accommodate a limited number of such graduates who desire advanced and research work.

Commodious laboratories for advanced work have been equipped in connection with the Pathological and Clinical departments of both the Royal Victoria and Montreal General Hospitals, and in connection with the general laboratories for Pathology, Pharmacology, Physiology and Chemistry, recently altered and extended, in the new buildings of the Faculty.

Recent graduates of recognized universities desiring to qualify for examinations by advanced laboratory courses, or who wish to engage in special research, may enter at any time by giving notice, stating the courses desired and the time at their disposal.

All the regular clinics and demonstrations of both hospitals will be open to such students on the same conditions as undergraduates in medicine of this University.

These laboratories have been open for graduates since May 1st, 1896.

Further details regarding courses, fees, etc., may be obtained on application to the Registrar.

The Graduate Course of 1904.

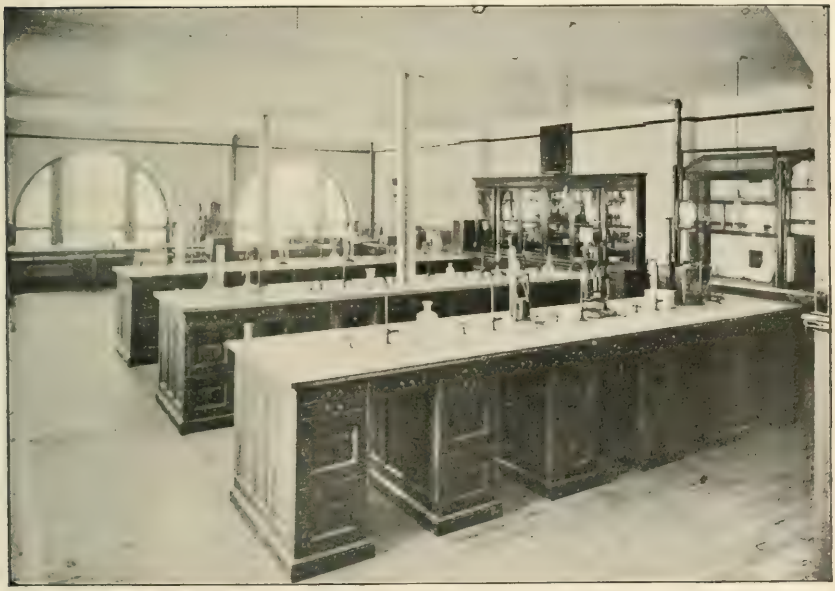
The tenth regular course of instruction for General Practitioners will be conducted as usual by the Faculty of Medicine.

A prospectus giving full particulars concerning the course will be issued, and may be had on application to the Registrar of the Faculty.

Diploma Course in Public Health.

The Faculty of Medicine in the session 1899-1900 instituted a gradate course in Public Health and Sanitary Science. This course will be given each year and the diplomas conferred at the annual convocation.

Laboratory of Pathology and Bacteriology.



In the Laboratory of Hygiene.

Candidates undertaking this course must have possessed a degree in Medicine or other qualification of practice for at least twelve months before he is competent to receive the diploma. The following are the courses requisite:—

1. Course of lectures in Public Health (to be omitted in the case of candidates who have attended such a course before graduation).

2. A three months' course in Bacteriology, special attention being directed to the pathogenic organisms and parasites—such course to be omitted on presentation of proof that it has previously been taken.

3. A six months' course of practical study of outdoor sanitary work under a medical officer of health (to be omitted in the case of medical health officers holding appointments prior to the establishment of this diploma course).

4. Three months' attendance and clinical instruction at a hospital for infectious diseases (unless such course has already been taken prior to graduation).

5. Three months' instruction in sanitary Chemistry and Physics, with practical work in a chemical laboratory.

Examination for Diploma shall cover the following subjects:—

1. Examination of clinical cases at an infectious hospital.

2. The drawing up of outlines for annual and other reports of officers of health.

3. Report upon the sanitary condition of some actual locality.

4. The chemical analysis of liquids and gases and of specimens of food.

5. Demonstration of the consideration and use of meteorological hygienic and sanitary apparatus.

6. Microscopical examination of specimens submitted.

7. Description of specimens of human and other diseased tissues.

8. Practical examination in the employment of the usual bacteriological methods.

9. The inspection of carcasses of animals to be used for food.

The above examination shall be written and oral and practical, and shall extend over a period of four days.

The following is a list of subjects included in the curriculum of study:—

(*a*) *Sanitary Chemistry*:—Examination of air, gases, water, the action of water on metals; milk, food and beverages; detection of poisons in articles of dress and of decoration; the chemistry of sewage.

(*b*) *Sanitary Physics*:—Principles of statics, pneumatics, hydraulics, light, light and photometry, heat and thermometry, the principles of hygrometry, (only in their application to hygiene).

(*c*) *Sanitary Legislation*:—Statutes and by-laws relating to public health; the powers of public sanitary authorities.

(*d*) *Bacteriology and Parasitology*:—Modes of propagation of disease and transmission of disease between man and man, and man and animals; bacteriological analysis in relation to public health matters; natural history of microbes and animal parasites.

(*e*) *Vital Statistics*:—Calculation and tabulation of returns of births, marriages, deaths and diseases.

(*f*) *Meteorology and Climatology*:—Including the geographical and topographical distribution of disease.

(*g*) *Preventive Medicine and Practical Sanitation.*

The fee for the Diploma shall be $20.

XII.

CLINICAL INSTRUCTION.

During the Session of 1904-5, three Medical, three Surgical, two Gynaecological and two Ophthalmological clinics will be held weekly in both the Montreal General and Royal Victoria Hospitals.

In addition, tutorial instruction will be given in these different departments in the ward, out-patient rooms and laboratories. Special weekly clinics will be given in the Montreal General Hospital on Dermatology and Laryngology and in the Royal Victoria Hospital on diseases of the Genito-Urinary system, Laryngology and Neurology.

Clinical Clerks in the medical and surgical wards of both Hospitals are appointed every three months, and each one during his term of service conducts, under the immediate directions of the Clinical Professors, the reporting of all cases in the ward

allotted to him. Students are required to show a certificate of having acted for six months as clinical clerk in medicine and six months in surgery, and are required to have reported at least ten cases in medicine and ten in surgery. The instruction obobtained as clinical clerk is found to be of the greatest possible advantage to students, as affording a true *practical* training for his future professional life.

Dressers are also appointed to the Out-door Departments. For these appointments, application is to be made to the Assistant Surgeons, or to the resident surgeon in charge of the out-patient department.

The large number of patients affected with diseases of the eye and ear, now attending the special clinics at both hospitals afford ample opportunity to students to become familiar with all the ordinary affections of those organs, and to make themselves proficient in the use of the ophthalmoscope; and it is hoped that every student will thus seek to gain a practical knowledge of this important branch of Medicine and Surgery. Operations are performed on the eye by the Ophthalmic Surgeons after the outdoor patients have been seen, and students are invited to attend the same, and as far as practicable to keep such cases under observation so long as they remain in the Hospital.

There are also special departments in both Hospitals for Gynaecology and Laryngology, directed by Specialists in these branches. Students are thus enabled to acquire special technical knowledge under skilled direction. The plan of teaching practical gynaecology for the past five years with marked success has been the limitation of the number of students attending each clinic to four.

The Clinics at the Montreal General Hospital in Dermatology and in both hospitals in Laryngology are very large, and afford a practical training in affections of the skin and throat rarely obtained by medical students.

A special clinic for diseases of the Genito-Urinary Organs has been established at the Royal Victoria Hospital.

Infectious diseases and Insanity will also be taught clinically, the former in the special wards for infectious diseases and the latter at the Verdun Hospital for the Insane.

XIII.

Hospitals.

The City of Montreal is celebrated for the number and importance of its public charities. Among these its public hospitals are the most prominent and widely known. Those in which medical students of McGill University will receive clinical instruction are: (1) The Montreal General Hospital. (2) The Royal Victoria Hospital. (3) Montreal Maternity Hospital.

The Montreal General Hospital has for many years been the most extensive clinical field in Canada. The old buildings, having proved inadequate to meet the increased demand for hospital accommodation, have been increased by the addition of two surgical pavilions, the Campbell Memorial, and the Greenshields Memorial, and of a new surgical theatre. The interior of the older buildings has been entirely reconstructed on the most approved modern plans.

The Royal Victoria Hospital at the head of University Street, which in structure and arrangements ranks among the finest modern hospitals of either continent, was opened for the reception of patients the first of January, 1894, and affords exceptional opportunities for clinical instruction and practical training.

Montreal General Hospital.

This Hospital consists of a Surgical, a Medical and a Pathological Department.

The Surgical Department has two large pavilions, containing four wards 135 feet long by 35 feet broad, with an intervening and connecting building in which is a large operating theatre of the most modern type, capable of seating over 350 students. In connection with this are preparation, etherising, instrument, sterilizing and surgeons' rooms, also smaller operating rooms. The surgical pavilions accommodate over one hundred patients.

The old part of the hospital, consisting of the Reid, Richardson and Morland wings, has been completely rebuilt and remodelled, and forms the Medical Department. This part contains four wards, 100 feet by 40, and is arranged for 150 beds. In this building there are wards for gynæcological and ophthalmological patients, and a number of private wards and laboratories for Clinical Chemistry. There is also a med-

cal amphitheatre capable of seating 150 students and a gynaecological operating room fitted up in the most modern manner. The central part of the old building is for administration purposes.

A completely new and commodious out-door patient department has been provided on the ground floor of the Richardson wing, and there is ample accommodation for the various special departments as well as large rooms for general medical and surgical patients.

The Pathological Department is a completely new building in which are the post-mortem theatre and rooms for microscopical and bacteriological work, and also a mortuary and chapel. In this building students are offered every opportunity of perfecting their knowledge of morbid anatomy and pathological histology.

The old Fever Wards on the grounds of the Hospital have been completely remodelled, and are now used as a laundry and kitchen.

A much larger number of patients receive treatment in the Montreal General Hospital than in any other Canadian hospital. Last year's report shows that over three thousand Medical and Surgical cases were treated in the wards, and the great proportion of these were acute cases as may be gathered from the fact that the average duration of residence was only 24.02 days. There are upward of forty thousand consultations annually in the out-door department of this Hospital.

The Royal Victoria Hospital.

This Hospital is situated a short distance above the University Grounds on the side of the Mountain, and overlooks the city. It was founded in July, 1887, by the munificence of Lord Mount Stephen and Lord Strathcona, who gave one million dollars for this purpose.

The buildings, which were opened for the reception of patients on the first of January, 1894, were designed by Mr. Saxon Snell of London, England, to accommodate between 250 and 300 patients.

The Hospital is composed of three main buildings connected together by stone bridges; an Administration Block in the centre and a wing on the east side for medical patients, in immediate connection with which is the Pathological wing

and mortuary, and a wing on the west side for surgical patients.

The Administration Block contains ample accommodation for the resident medical staff, the nursing staff and domestics. The patients' entrance, the dispensary and admission rooms are also situated in this building. To the north of the Administration Block has been erected a large out-patients' department, in which are special departments for Minor Surgery, Ophthalmology, Laryngology, and Gynaecology. This wing was opened for patients during the winter of 1899-1900.

The Medical wing contains three large wards, each 123 feet long by 26 feet 6 inches wide, one ward 40 feet by 26 feet 6 inches, and 15 private and isolation wards averaging 16 feet by 12 feet; also a medical theatre with a seating capacity for 250, and three rooms adjacent to it for clinical chemistry, and other purposes. North of this wing and in direct connection with it are the Pathological laboratories and mortuary.

In this wing are situated the mortuary proper, the chapel, a post mortem room capable of accommodating 200 students, and laboratories for the microscopic and bacteriological study of morbid tissues, some designed for the use of students and others for post graduation courses and special research. Special laboratories for Pathological Chemistry, Experimental Pathology, Bacteriology and Photography are also provided.

The Surgical wing contains three large wards, each 123 feet long by 26 feet 6 inches wide, four wards each 40 feet by 32 feet, and seven private and isolation wards, averaging 16 feet by 12 feet; also a surgical theatre with a seating capacity for 250, with six rooms adjacent for preparation of patients.

In this wing are also the wards for Gynaecology and Ophthalmology. There is also an Isolation Pavilion for infectious diseases.

XIV.

The Montreal Maternity.

The Faculty has great pleasure in announcing that the Corporation of the Montreal Maternity has in contemplation the erection of a large new building fitted with the most modern appliances. The new hospital will be situated at the corner of Prince Arthur and St. Urbain streets. Plans and specifications for it are now about complete. Students will therefore

have greatly increased facilities for obtaining a practical knowledge of obstetrics and diseases of infancy. An improved Tarnier-Budin phantom is provided for the use of the students, and every facility afforded for acquiring a practical knowledge of the various obstetric manipulations. The Institution is under the direct supervision of the Professor of Midwifery, who devotes much time and attention to individual instruction. Students who have attended the course in Obstetrics during the winter and spring terms of the Third Year will be furnished with cases in rotation, which they will be required to report and attend till convalescent.

An outdoor service in connection with the Maternity has been established, the resident physician and a nurse being sent out to attend deserving cases in their own homes. Students who have had six cases in the hospital are sent out with the resident physician to such cases whenever it is possible.

Clinical Obstetrics has been placed upon the same basis as Clinical Medicine and Surgery, and a final clinical examination has been instituted. Every student must give in two complete clinical reports of cases observed by himself before presenting himself for the final clinical examination. Marks are given for these reports in the Final examination for degree. Regular courses of clinical lectures are given throughout the session, special attention being paid to the important subject of infant feeding. The Walker-Gordon process of modifying milk is explained and demonstrated. At the regular Saturday clinic the work of the past week is reviewed, and an opportunity is given for the examination of patients and the discussion of points of interest in diagnosis and treatment.

During the autumn and winter terms the Lecturer and Demonstrators of Obstetrics give a palpation course, clinical demonstrations in the wards and instruction in operative work on the phantom. Students will find it very much to their advantage to pay special attention to their clinical work during the spring term of the Third Year and the following summer.

One resident medical officer is appointed yearly to hold office for a period of nine months, and one for a period of three months.

Fee for twelve months, $12; payable at the Maternity Hospital.

XV.

Museums.

The Faculty has during recent years devoted special attention to the development of its museums in the several departments in which objective teaching is of especial value in the education of the student.

There are now four museums in the Medical Building: (1) the Museum of Pathology, (2) the Anatomical Museum, (3) the Museum of Public Health and Preventive Medicine, (4) the Museum of Pharmacy.

Each collection is arranged and selected with the primary object of making it a teaching museum. The several collections are open to students and the public between 9 a.m. and 5 p.m.

Pathological Museum.

Prof. J. G. Adami, Director.
Maude E. Abbott, B.A., M.D., Assistant Curator.
M. Jules Bailly, Osteologist and Articulator.

For the past fifty years the rich Pathological Material furnished by the Montreal General Hospital has been collected here. The Faculty is also greatly indebted to many medical men throughout Canada and different parts of the world for important contributions to the Museum.

During the past few years, numerous and extremely important additions have been made to the Medical Museum.

It is particularly rich in specimens of Aneurisms. In addition to containing a large number of the more common varieties of these formations, there are specimens of such rare conditions as Aneurism of the hepatic and superior mesenteric arteries, traumatic aneurism of the vertebral together with several of the cerebral and pulmonary arteries. The most important collection probably in existence of hearts affected with "Malignant Endocarditis" is also found. The Faculty are indebted to Prof. Osler, late of this University, for this collection.

The Museum contains also a very large collection of different forms of calculi. The Faculty are mainly indebted to Prof. Fenwick for this collection.

During the past ten years, M. Bailly, osteologist and articulator (lately with Tramond of Paris), has been engaged in

arranging and mounting the very large number of specimens of disease and injuries of bones which have been accumulating for years. In this collection are to be found examples of fractures and dislocations of the spine, osteoporosis, congenital dislocation of the hip, fracture of the astragalus, multiple exostoses, etc., etc.

The Pathological Museum has recently undergone complete alteration. All the old fixtures have been removed, a new gallery has been erected about both rooms, reached by a single staircase in a small intermediate room in which is placed the medico-legal collection.

The first room on entering contains the extensive bone collection and calculi. The second and larger room is reserved for the moist preparations, which are arranged so as to be of easy access for the student. Water color drawings made from the fresh specimens are mounted on swinging frames, and also form a frieze at the ceiling. These serve to recall the fugitive colors of those preparations which become more or less altered on keeping.

Numerous specimens have been contributed from the surgical and medical wings of the Royal Victoria Hospital, and from the different departments of the Montreal General Hospital.

Museum of Hygiene.

DIRECTOR, PROF. T. A. STARKEY.

This Museum has been established from the interest accruing through the endowment of the Chair of Hygiene by Lord Strathcona and Mount Royal in 1893.

With a view to exhibiting not only specimens of the best and most approved types of appliances in each particular branch of Public Health, but also examples of types which are to be avoided on Hygienic Principles, the material in the Museum has been rearranged. In order to facilitate study and reference, the specimens have been classified upon a decimal system under the following sections:—

1. *Disinfection.*—Including disinfecting apparatus, disinfectants and antiseptics.

2. *Lighting and Heating.*—Showing contrivances used for these purpeses.

3. *Water.* Showing underground water and supplies drawn from it; methods of purification on large and small scales, including domestic filtration; exhibits of all the common modes of pollution of water supplies.

4. *Soil and Buildings.*—Various kinds of soil for building sites, etc.; effects of ground air and ground moisture on dwellings; building materials of all kinds, and measures against dampness and foul air.

5. *Air.*—Including ventilation, climate and meteorology, with apparatus illustrative of each class.

6. *Drainage and Refuse Disposal.*—This section includes every description of sanitary appliance used in building, drainage, and ultimate disposal of refuse, both liquid and solid. The section also includes types of faulty methods.

7. *Foodstuffs and Beverages.*—Adulterations and modes of transmission of disease.

8. *Clothing.*—Materials and their value for clothing.

9. *Vital Statistics,* Administration, etc.

In addition to the regular Museum Exhibit, there is a collection of over 1,000 lantern slides illustrative of phases of Hygiene. The slides have been so arranged as to be available for demonstrations as hand specimens. These slides as well as all the specimens in the Museum are card catalogued, and a projecting lantern is available for their demonstration.

The following are some of the principal exhibits:—Set of Knight's diagrams and models; working models illustrating house drainage, closets, etc., sewer air, movements of soil air; Doulton's models, of drainage, damp proof construction, absorption of moisture in building materials, ventilation appliance, combined heating and ventilation, automatic regulation of heating and ventilation; building materials; fire proofing; estimation of carbonic acid and moisture in the air; meteorological observation; water supply, water piping; water filtrations of public and domestic supplies; pollution of water supplies; ground water level; sewage and refuse disposal; food supply; food adulteration; examination of milk supplies; disinfection, disinfectants.

Anatomical Museum.

DIRECTOR, PROFESSOR F. J. SHEPHERD.
M. JULES BAILLY, OSTEOLOGIST AND ARTICULATOR.

This Museum occupies a large room on the same floor and adjoining the Anatomy Lecture Room and Dissecting Room. Smaller apartments in connection are used for private research, which is encouraged in every way by the Faculty.

The Museum is well furnished and comfortable, and students have every opportunity of studying Human, Comparative and Applied Anatomy.

This department has during the past few years added a very complete collection of plaster and papier maché models by Steger, after the well-known works of His and Braune, comprising:

(*a*) A complete set of Steiger's brain sections.

(*b*) Models of the cerebro-spinal and sympathetic nervous systems, viscera, muscles, etc.

(*c*) Professor Cunningham's well-known and beautiful casts of the head showing the relation of the cerebral convolutions to the skull and its sutures.

(*d*) A large collection of human brains, made by Professor Osler, formerly of this University, exhibiting the various types and extremes.

(*e*) A large and rare collection of anomalies of the renal vessels and ureter, and the aorta and its branches.

(*f*) In Comparative Anatomy the student will find a fair amount of material, the study of which will greatly aid him in the elucidation of many points in Human Anatomy.

(*g*) Some beautiful dissections of the semi-circular canals of the ears of fishes and also specimens showing the nervous system of fishes. Made and presented to the Museum by Dr. Cresswell Shearer.

(*h*) Many skeletons mounted by Mons. Jules Bailly, Articulator to the University, representing the various classes, orders, genera and species of the animal kingdom may be consulted.

(*i*) A large collection, showing the pectoral girdle in birds, has been prepared under the supervision of the Professor of Anatomy.

(*j*) Moist and dry preparations of dissections, a large collection of frozen cross sections of the human body, showing the normal relations of the viscera, etc., will be found convenient for study.

XVI.

Library.

LIBRARIAN:—PROF. F. G. FINLEY.
ASSISTANT LIBRARIAN:—MISS M. R. CHARLTON.

The Library of the Medical Faculty now comprises upwards of twenty-three thousand volumes, the largest special library connected with a medical school on this continent.

The valuable libraries of the late Professors Robert Palmer Howard, George Ross, Richard L. MacDonnell, T. Johnston Alloway and of Dr. Allen Ruttan have been donated to the Medical Faculty.

The standard text-books and works of reference, together with complete files of the leading periodicals, are on the shelves. Students may consult any work of reference in the library between 9 a.m. and 6 p.m., and from 7.30 to 10.30 p.m. A large library reading-room for the use of students is provided.

Extracts from the Library Regulations.

I. During the College Session the Library is open daily (except Sundays and general public holidays) from 9 a.m. till 6 p.m., and from 7.30 to 10.30 every evening. During vacation from 9 a.m. to 5 p.m.

II. The stack room is not open to students or to the public.

III. The books in the Library are classed in two divisions: 1st, those which may be taken from the Library; 2nd, those which may not, under any circumstances, be removed from the Library. The latter class includes all catalogues, dictionaries and encyclopedias.

IV. Students will be allowed to use regular text-books only in the Library. Any other book may be taken out at 5.30 p.m. to be returned the next day. If books so removed from the Library are not returned punctually, a fine will be imposed, and if the delay be serious the student may be suspended from the use of the Library at the discretion of the Librarian.

V. Students may take out books, subject to the above regulations, to the number of three volumes at one time.

VI. Books may be taken from the Library only after they have been especially asked for and charged at the delivery desk; borrowers who cannot attend personally must sign and date an

order, giving the titles of the books desired and the name of the person deputed to procure the same.

VII. Damage to or loss of books shall be made good to the satisfaction of the Librarian and of the Library Committee. Writing or making any mark upon any book belonging to the Library is unconditionally forbidden. Any persons found guilty of wilfully damaging any book in any way shall be excluded from the Library, and shall be debarred from the use thereof for such time as the Library Committee may determine.

VIII. Silence must be strictly observed in the Library.

IX. Infringement of any of the rules of the Library will subject the offender to a fine or suspension of his privileges, or to such other penalty as the nature of the case may require.

The number of volumes presented to the Library from Nov. 1st, 1901, to Oct. 31st, 1902	1,823
Those added by purchase	150
Total additions to November, 1902	1,973
The attendance of readers to June 15th, 1902, has been	10,070
The attendance from June 2nd, 1897, to May 14th, 1898, was	6,350
The attendancec from June 1st, 1896, to June 1st, 1897, was	5,920
The attendance from June 1st, 1895, to June 1st, 1896, was	4,875
The number of books taken out for home use, Nov. 1st, 1901, to Oct. 31st, 1902	3,710
The number of journals and pamphlets has been	351

This does not include the works consulted in the Library.

The Faculty has endeavored to make the Library as complete as possible for research work. Complete files of almost all the important periodicals are now on the shelves, including foreign as well as English and American journals. A large number of transactions of various societies have recently been acquired, and also the Berlin and Paris Theses.

Arrangements have been made whereby practitioners both in the city and country can avail themselves of the library, the only conditions being the payment of express charges and a guarantee for the safe return of books borrowed.

XVII.

McGill Medical Society.

This Society, composed of enregistered students of the Faculty, meets every alternate Saturday during the Autumn and Winter Terms, for the reading of papers, case reports and discussions on medical subjects. A prize competition has been established in Senior and Junior subjects, the Senior being open to all to write upon, while only the 1st, 2nd and 3rd. year students are allowed to compete in the Junior subjects. The papers are examined by a board elected from the Professoriate, and a first and second prize in each division of subjects is awarded to the successful candidates.

Names of competitors and titles of papers shall be sent to the Chairman of the Programme Committee before September 1st, and all papers shall be subject to the call of the Committee on October 1st. All papers shall be handed in for examination on or before January 10th.

The students' reading room has been placed under the control of this Society, in which the leading English and American Medical Journals are on file, as well as the leading daily and weekly newspapers of the Dominion.

The annual meeting is held the first week of the Spring Term, when the following officers are elected: Hon. President (elected from the Faculty), President, Vice-President, Secretary, Assistant Secretary, Treasurer, Reporter, Pathologist, and three Councilmen (of whom two shall be elected from the Faculty).

XVIII.

Hospital Appointments.

The Resident Medical and Surgical Staff of the Montreal General, the Royal Victoria and the Maternity Hospitals, is selected by examination from the members of the graduating class of each year. There are from fifteen to twenty such appointments made annually which are tenable for from one to three years, while a number of them carry a small salary with

them. The following students of the graduating class of 1903 received hospital appointments:—

ROYAL VICTORIA HOSPITAL:—

Surgical Department:—Drs. H. C. Church and A. L. Lynch.
Medical Department:—Drs. Robt. King, J. M. McCulloch and G. H. Turner.
Medical Externe:—Dr. R. H. M. Hardisty.
Locum Tenens:—Drs. A. C. Frost and D. W. McKechnie.

MONTREAL GENERAL HOSPITAL:—

Drs. E. M. McLaughlin, N. D. Paris, F. S. Patch, B.A., W. E. Nelson, C. W. Anderson, B.A., L. C. Bishop, H. Cowperthwaite.
Locum Tenens:—Drs. R. D. Forbes and A. S. Burns, B.A.

MONTREAL MATERNITY HOSPITAL:—

Dr. W. G. Campbell.
Dr. W. G. Cumming.

The University Library.

C. H. Gould, B.A., Librarian.

The University Library is under the general management of a Committee of Corporation, consisting of the Principal, Chairman; the Librarian, Secretary; two members of the Board of Governors; one Representative Fellow, appointed by corporation; two representatives of the Faculty of Arts, elected by the Faculty; one representative of each of the Faculties of Applied Science, Law and Medicine, elected by their respective Faculties; and four other members appointed by Corporation.

The various libraries of the University now contain about 101,000 volumes, and a large number of pamphlets.

In addition to the general works selected with a view to illustrating the several courses of University study, the Committee has latterly been enabled through generous gifts to acquire many sets of serials and monographs which are indispensable for research, and to provide for the symmetrical growth of the Library.

There are now on the shelves more than 250 complete fyles of periodicals and transactions of various literary and scientific societies, many of which have been added during the past year through the liberality of Sir W. C. MacDonald.

Among the special collections exclusive of departmental libraries, mention should be made of the *Redpath Historical Collection*, formed by the late Mr. Peter Redpath some years before his death. This is still being added to by Mrs. Peter Redpath, is now of great value, and affords unusual opportunities for the study of English History. The most prominent part of the collection—a series of political and religious tracts—has been greatly enlarged by Mrs. Redpath, and now comprises about 10,000 brochures, dating from 1600 to the end of the nineteenth century.

Abundant materials, bearing upon the History of Canada, have been gathered together. Of these the nucleus is formed

University Library.

by the entire library of the late Mr. Frederick Griffin, whose choice books were, some years ago, bequeathed to the University. This branch of the library is being steadily augmented, and includes interesting Canadian portraits and autographs.

The Medical Library, directly controlled by the Faculty of Medicine, is the largest of the departmental libraries, and is one of the most complete collections of its kind in the Dominion.

About 250 current periodicals, literary and scientific, are subscribed for through the various departments of the University. Besides these, the library regularly receives Serials, Transactions and Proceedings of Societies. The list of both periodicals and serials is being extended yearly.

The generosity of the family of the late Mr. Hugh McLennan has enabled the Library Committee to establish and operate for the past two years a system of travelling libraries. These are sent on application, and the payment of a nominal fee of $3, to any point in Canada. The regulations and full particulars may be obtained from the Librarian of the University.

Although the library is maintained primarily for members of the University, the Corporation has provided for the admission, upon certain conditions, of such persons as may be approved by the Library Committee. It is the desire of the Committee to make the library as useful to the entire community as is consistent with the safety of the books and the general interests of the University.

Extract from the Library Regulations.

1. During the College Session the Library is open daily (except Sundays and general public holidays), from 9 a.m. till 5 p.m.; and the Reading Room from 9 a.m. till 6 p.m., and also from 7.30 till 10.30 p.m. On Saturdays, both Library and Reading Room close at 5 p.m. During vacations, both Library and Reading Room close at 5 p.m., and on Saturdays at 1 p.m.

2. Students in the Faculty of Arts, of Law, and of Applied Science are entitled to read in the Library, and may borrow books (subject to the regulations) to the number of three volumes at one time.

3. Students in the Faculty of Medicine, who have paid the Library fee to the Bursar, may read in the Library, and on

depositing the sum of $5 with the Bursar, may borrow books on the same conditions as students in other Faculties. They are required to present their Matriculation Tickets to the Bursar and to the Librarian.

4. Graduates in any of the Faculties, on making a deposit of $5, are entitled to the use of the Library, subject to the same rules and conditions as students in Arts, Law, or Applied Science.

5. Books may be taken from the Library only after they have been charged at the Delivery Desk; borrowers who cannot attend personally must sign and date an order, giving the titles of the books desired.

6. Books in the Reference Library must not be taken from the Reading Room; and, after they have been used, they must be returned promptly by readers to their proper places upon the shelves.

7. Before leaving the Library, readers must return the books they have obtained to the attendant at the Delivery Desk.

8. All persons using books remain responsible for them so long as the books are charged to them, and borrowers returning books must see that their receipt is properly cancelled.

9. Writing or making any mark upon any book belonging to the Library is unconditionally forbidden. Any person found guilty of wilfully damaging any book in any way shall be excluded from the Library; and shall be debarred from the use thereof for such time as the Library Committee may determine.

10. Damage to or loss of books, maps, or plates, and injury of Library fixtures, must be made good to the satisfaction of the Librarian and of the Library Committee.

Damage, loss or injury when the responsibility cannot be traced will be made good out of the caution money deposited by students with the Bursar.

11. Should any borrower fail to return a book upon the date when its return is due, he may be notified by postal card of his default, and be requested to return the book. If the loan is not renewed, or the book returned, after a further delay of at least three days, it may be sent for by special messenger, at the borrower's expense.

12. Before the close of the session, students in their final year must return uninjured, or replace to the satisfaction of the Librarian, all books which they have borrowed.

13. Silence must be strictly observed in the Libraries.

14. Infringement of any of the rules of the Library will subject the offender to a suspension of his privileges, or to such other penalty as the nature of the case may require.

McGill College Book Club.

ESTABLISHED, A.D. 1869.

This Club is in the 35th year of its existence and has for its two-fold object to procure an early supply of new books (novels excluded) for its members, and the increase of the Library. By this means an addition has already been made to the Library of not less than 4,000 volumes in special and general literature.

Membership in the Club is open to all, at an annual subscription of ten dollars.

Apart from the advantages to be directly derived from membership, there is the special privilege accorded to members of using the College Library on the same conditions as graduates, without being required, however, to make a deposit when books are borrowed.

The members of the Executive Committee are Dr. Johnson, Rev. Dr. Murray, Mr. W. M. Ramsay, Mr. Henry Fry, Mr. G. B. Cramp, and Mr. G. A. Farmer, to any of whom application for membership may be addressed, or to Mr. E. M. Renouf, Secretary, at the Club's Depository, 2238 St. Catherine Street.

McGill Normal School.

The McGill Normal School, in the city of Montreal, is established chiefly for the purpose of training teachers for the Protestant population, and for all religious denominations of the Province of Quebec, other than the Roman Catholic. The studies in this school are carried on chiefly in English, but French is also taught.

Government of the School.

The Corporation of McGill University is associated with the Superintendent of Public Instruction in the direction of the McGill Normal School, under the regulations of the Protestant Committee of the Council of Public Instruction, and it is authorized to appoint a standing committee consisting of five members, called the "Normal School Committee," which shall have the general supervision of the affairs of the Normal School. The following members of the Corporation of the University constitute the committee of the Normal School for the Session of 1904-1905 :—

W. Peterson, LL.D., C.M.G., Principal of the University, Chairman.
Charles E. Moyse, B.A., LL.D., Dean of the Faculty of Arts.
J. R. Dougall, M.A.
Rev. E. I. Rexford, M.A.
Rev. James Barclay, M.A., D.D.
} Fellows of McGill University.
J. A. Nicholson, M.A., Secretary.

Officers of Instruction.

McGill Normal School.

Sampson Paul Robins, M.A., LL.D., D.C.L., Principal and Lecturer on Art of Teaching.

ABNER W. KNEELAND, M.A., B.C.L., Ordinary Professor of English Language and Literature.
MADAME SOPHIE CORNU, Ordinary Professor of French.
MR. HENRY F. ARMSTRONG, Associate Professor of Drawing.
MISS LILIAN B. ROBINS, B.A., Assistant to the Principal and Instructor in Classics.
MR. W. H. SMITH, Instructor in Vocal Music.
MR. JOHN P. STEPHEN, Instructor in Elocution.
MISS CARRIE M. DERICK, M.A., Lecturer on Botany.
PROF. NEVIL N. EVANS, M.A.Sc., Lecturer on Chemistry.
J. A. WILLIAMS, M.D., Lecturer on Physiology and Hygiene.
H. T. BARNES, D.Sc., Lecturer on Physics.
A. W. G. WILSON, M.A., Ph.D., Lecturer on Physiography.
MR. JAMES WALKER, Instructor in Penmanship and Book-keeping.
MISS LOUISE DERICK, Instructor in Kindergarten Methods.
MR. E. W. ARTHY, Lecturer in the Theory of Kindergarten and Transition Work.
MISS JESSIE Y. CHISHOLM, Instructor in Kindergarten History and Principles.
MISS V. M. HOLMSTROM, Instructor in Calisthenics.
MR. CARL JOHANSSON, Director of Manual Training, McDonald Endowment.
MR. G. E. EMBERLEY, Teacher of Manual Training.
MISS JOSEPHINE T. DOW, Instructor in Cooking.
MISS M. J. CONNOR, Instructor in Sewing.
MISS MARY R. KNOWLTON, Principal's Secretary and Librarian.

Model Schools of the McGill Normal School.

E. MONTGOMERY CAMPBELL, B.A., Head Master of Boys' School.
MISS MARY I. PEEBLES, Head Mistress of Girls' School.
MISS SELINA F. SLOAN, Head Mistress of Primary School.

Announcement for the Session 1904-1905.

This Institution is intended to give a thorough training to teachers, by instruction and training in the Normal School itself, and by practice in the Model Schools; and the arrangements are of such a character as to afford the greatest possible facilities to students from all parts of the province. The Protestant Central Board of Examiners for the Province of Quebec grants diplomas only to teachers-in-training of this Institution and to graduates of British or Canadian Universities.

The forty-ninth session of this School will commence on the first of September, 1904, and close on the thirty-first of May, 1905. The students are graded as follows :—

1.—*Elementary Class.*—Studying for the Elementary Diploma.

2.—*Advanced Elementary Class.*—Studying for the Advanced Elementary Diploma.

3.—*Kindergarten Class.*—Studying for the Kindergarten Diploma.

4.—*Model School Class.*—Studying for the Model School Diploma.

5.—*Class in Pedagogy.*—Preparing for the Academy Diploma.

Detailed information respecting the courses of the four grades first enumerated above may be obtained on application to the Principal of the School, at 32 Belmont St., Montreal.

Academy Diplomas to Graduates.

All holders of model school diplomas that have been granted by the McGill Normal School or that shall hereafter be granted by the Central Board of Examiners shall be entitled to receive Academy diplomas on graduating in Arts at some Canadian or other British university, provided that they pass in Mathematics, Latin, Greek and French at the degree examinations, or, failing this in any subject or subjects of this group, pass in such subject or subjects examinations that are certified by the universities to give to the graduate concerned a standing not lower than that of second class at the end of the Second Year. But graduates who substitute German for Greek, on fulfilling all other conditions, may receive modified Academy diplomas, which will not authorize the holders to become principals of Academies.

All graduates in Arts of Canadian or other British universities who have passed in Mathematics, Latin, Greek and French, as above defined, and have taken a course and have passed satisfactory examinations in Education and Practical Teaching under the control of the Universities or of the McGill Normal School, as approved by the Protestant Committee of the Council of Public Instruction, shall be entitled to receive Academy diplomas. The Central Board of Examiners shall determine who have passed satisfactory examinations in Education and in

Practical Teaching in view of the results, which, including examination questions and answers, shall be remitted to the Board by the university examiners, and in view of the recommendations of the professors of education. The Central Board of Examiners is empowered to set one-half of the questions in Education, and to prescribe the tests of ability to teach and to govern which must be followed in such examinations.

To meet the requirements of graduates and undergraduates in Arts, who, not having previously taken a Normal School course, desire to receive Academy diplomas, and until the Universities themselves undertake the work, provision has been made for the delivery of a course of lectures on pedagogy in the Normal School and for practice in teaching in the McGill Model School for fifty half days, open to graduates in Arts of any British or Canadian university, to undergraduates of the Third Year, and with the permission of the Faculty and the concurrence of the Principal of the Normal School, to those of the Fourth Year. The hours assigned for these lectures are from 3 to 4 p.m. on each Tuesday and Friday on which lectures are given in the Faculty of Arts. An examination on this course of lectures is held annually on the 20th day of May, or on the school day next succeeding that date; the hours are from 10 a.m. to 12 noon.

Undergraduates will be permitted to teach the fifty half days referred to above, during the months of December and May of the Third and Fourth Years of their college course. Graduates will be permitted to teach in the Model Schools at such times as may be agreed on with the Principal. Those who teach in the Model Schools are expected to prepare all lessons and discharge all duties assigned them with faithfulness. Failure to teach or to govern in the Model Schools, as indicated by the percentage of marks taken, no less than failure to pass the examination on the course of lectures, endangers the Academy diploma.

Each person desiring to take this course of study in the Normal School must make application for permision to enter to the Secretary of the Central Board of Examiners, on the authorized form, remitting to him at the same time all necessary certificates of standing and character, and a fee of $4.00. While in attendance on this course each person is subject to the regulations of the said school, and is under the supervision and control of its Principal.

Exemption from Matriculation Examination in McGill University.

Holders of Model School diplomas of the McGill Normal School who are certified by the Principal of the Normal School to have taken 75 per cent. of the total marks at their final examinations, with not less than 50 per cent. of the marks in Mathematics, French, Latin and Greek respectively, will be admitted without further examination to the First Year in Arts of McGill University; but all such students must make good their standing at the Christmas examinations of the University.

Bursaries for Graduates of the Normal School.

Three bursaries, of the value of $60.00 each, are offered annually in the Faculty of Arts to the three teachers-in-training of the McGill Normal School who have (1) satisfied the requirements for entrance to this Faculty, as above specified, and (2) who, of all those applying for these bursaries, stand highest in their final examinations.

University Examinations.

SESSION 1902-1903.

Faculty of Law.

PASSED FOR THE DEGREE OF B.C.L.

(In order of merit.)

Gosselin, Louis, B.A.
Casgrain, A. Chase, B.A.
MacKinnon, Cecil G., B.A.
Rugg, Frederick S.
Vipond, Herbert S.
Madore, Louis, B.A.
Theberge, Albert.
Blaylock, Harry W., B.A.
Bergeron, Patrick John.
Tansey, Thomas M.
Orr, Henry Stanley, B.A.
Weinfield, Henry, B.A.
Rankin, Arthur G. E., B.A.

Faculty of Arts.

PASSED FOR THE DEGREE OF B.A.

IN HONOURS.

(In Alphabetical Order.)

First Rank. —Belyea, Marion E.
Bovey, F. H. Wilfrid.
Couture, Gui. C.
East, Edith M.
Johnson, Walter S.
Lomer, Gerhard R.
Lundie, E. Helen.
Parkin, Maude E.
Wales, Julia G.

Second Rank.—Fee, Jas. E.
Lockhart, Arthur R. B.
Wisdom, Katherine F.

ORDINARY B.A.

(In order of merit. Students of equal standing are bracketed together.)

Class I.—Davidson, Mac B.
McMorran, Thomas S.

Class II.—Griffin, Gertrude.
Harris, Alan Dale.
Dutaud Gustave.
Lunny, Rosemary.
Parkins, Edgar R.
Cameron, Dakers.
Mackay, Eric B.
Seaman, Jno. C.
Holman, William L.
Troop, George W. H.
Class III.—Simister, Warren.
Ascah, Robert G.

SPECIAL EXAMINATION.

Ireland, F. Charles.
Parker, Dan T.

ORDINARY B.SC.

Class II.—Gass, Helen.
Class III.—McLeod, Euphemia G.

BACHELORS OF ARTS WHO WERE GRANTED THE DEGREE OF M.A., IN COURSE.

Cooke, Hereward Lester, B.A.
Craig, William Woodham, B.A.
Johnson, John Guy Watts, B.A.
McMillan, Cyrus J., B.A.

BACHELOR OF ARTS GRANTED THE DEGREE OF M.SC., IN COURSE.

Marcuse, Bella, B.A.

ADMITTED TO THE DEGREE OF D.SC., IN COURSE.

Tory, Henry M. J., M.A.

ADMITTED TO THE DEGREE OF LL.D., HONORIS CAUSA.

Mackenzie, Sir Alexander Campbell, Mus. Doc., LL.D. (Glasgow).
Moyse, Charles E., B.A. (London).
Parkin, George R., LL.D., C.M.G.

PASSED THE INTERMEDIATE EXAMINATION.

(1).—FOR COURSE LEADING TO B.A

(In order of merit. Students of equal standing are bracketed together.)

Class I.—King, Louis V.
Idler, S. Mary
Michaels, Rosebud F.
Macnab, Norman.
Class II.—Cushing, R. Macaulay.
Sharp, Florence E.
Chodat, Henri.
Taber, Marion M. D.
Fraser, George A.
Smith, May.
Edwards, Lyford P.
McFee, M. C. Coll.

Bowman, Nora F.
Curtis, Walter E.
Perry, Kenneth M.
Roy, Philias R.

Class III.—Halpenny, Thomas A.
Hitchcock, Mary A.
Laverock, Lily J. ‡
Adams, Claude A.
Hill, Julia M.
McCuaig, Douglas R.
McMurtry, Rennie O.
Nicholson, John C.
Moule, Frances S.
Cameron, A. W.
Lyman, Ruth D.
Wales, Osgood H.
Gillean, A. Muriel.
Hyde, G. Gordon.
Stewart, William.
Stewart, Thomas S.
Bajus, William P. (*s*) ‡
Cotton, Thomas F. (*s*)
Crane, C. W. (*s*)
Cross, C. Ernest (*s*)
De Beck, Edwin K. ‡ (*s*)
Hepburn, Flora E. (*s*)
Howitt, Henry (*s*)
Jenkins, Joseph (*s*)
Locke, Ernest (*s*)
McCoy, Isabel (*s*)
Munn, Laura A. (*s*)
Ower, John J. (*s*)
Price, Thomas John ‡ (*s*)
Rabinovitch, Max (*s*)
Robinson, William W. (*s*)
Smith, Ella (*s*)
Tannenbaum, David (*s*)

Faculty of Applied Science.

PASSED FOR THE DEGREE OF BACHELOR OF SCIENCE.

(In order of merit.)

CHEMISTRY.

Egleson, James Ernest Aiken, Ottawa, Ont.
Savage, George Munro, Montreal, Que.
Musgrave, William Newcome, Duncans, Vancouver Island, B.C.
Crawford, Stuart, Montreal, Que.

CIVIL ENGINEERING.

Edwards, William Muir, M.Sc., Montreal, Que.
Jones, Harold William, Ottawa, Ont.
Beck, Alfred Edward, Penetanguishene, Ont.
Cohen, Harris, Montreal, Que.
Landry, Pierre Alfred, Dorchester, N.B.

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‡ Vancouver College.
s With supplemental examination in one subject.

ELECTRICAL ENGINEERING.

Foreman, Alvah Ernest, Vancouver, B.C.
McCaskill, Kenneth, Vankleek Hill, Ont.
Conklin, Roscoe Yeo, B.A., Winnipeg, Man.
Cole, George Percy, Montreal, Que.
McDonald, James Finlay, Westville, N.S.
Keith, Fraser Sanderson, Smith's Falls, ,Ont.
Thorpe, William Horseman, Montreal, Que.
Stokes, Charles William, Woodstock, N.B.
James, Bertram, Heart's Content, Newfoundland.
Trimingham, Charles Loch, Barbadoes, West Indies.
Baker, William Ernest, Montreal, Que.

MECHANICAL ENGINEERING.

Roberts, Arthur Reginald, Montreal, Que.
Brown, Frederick Baylis, Montreal, Que.
McKay, Frederick Alexander, Montreal, Que.
McKergow, Charles Millar, Westmount, Que.
Edgar, John Hamilton, Montreal, Que.

MINING ENGINEERING.

Robertson, John Ferguson, Charlottetown, P.E.I.
Hall, Oliver, Washington, Ont.
Tilt, Edwin Bingham, Goderich, Ont.
Boright, Sherman Henry, Sutton, Que.
Lucas, Alan Stanley Bruce, B.A., Hamilton, Ont.
Rowley, Lorne Eldon, M.A., Marysville, N.B.
Pemberton, William Parnell Despard, Gonzales, B.C.
Rowlands, Charles, Albany, N.Y., U.S.A.
Musgrave, Robert, Duncans, Vancouver Island, B.C.
Gale, George Gordon, Quebec, Que.
Stovel, Joseph Hodder, Toronto, Ont.
Langley, Albert Godwin, Victoria, B.C.
Reynolds, Leo Bowlby, Waterford, Ont.
Ross, James Gordon, Embro, Ont.
Maclaren, Francis Harold,, Huntingdon, Que.
Kendall, George, Vancouver, B.C.
Porcheron, Alphonse Decombre, Montreal, Que.

ADMITTED TO THE DEGREE OF MASTER OF SCIENCE.

(In Course.)

Cameron, Kenneth McKenzie, B.Sc., London Ont.
Corless, Charles Vandyke, B.Sc., New Durham, Ont.
DePencier, Henry Percy, B.Sc., Vancouver, B.C.
Frechette, Howells, B.Sc.,. Ottawa, Ont.
Newton, Samuel Robert, B.Sc., Drummondville, Que.
Paterson, Charles Stiven, B.Sc., Montreal, Que.
Smith, Gerald Meredith, B.Sc., St. Johns, Que.
Sterns, Frank Ernest, Morrell, P.E.I.

ADMITTED TO TNE DEGREE OF DOCTOR OF SCIENCE.

(In Course.)

Owens, Robert Bowie, M.A., E.E. (Columbia, Johns Hopkins), M.Sc. (McGill).

Faculty of Medicine.

PASSED FOR THE DEGREE OF DOCTOR OF MEDICINE AND MASTER OF SURGERY.

(In Alphabetical Order.)

Allan, R., Montreal, Que.
Allum, A. W., Renfrew, Ont.
Anderson, C. W., B.A., Halifax, N.S.
Andrews, J. J., St. Lambert, Que.
Bishop, G. A., Kinburn, Ont.
Blair, A. K., Chicoutimi, Que.
Boulter, J. H., B.A., Picton, Ont.
Boyd, O., Russell, Ont.
Boyd, R. M., Belleville, Ont.
Brooks, J. E., B.A., Eastport, Maine.
Burns, A. S., B.A., Boston, Mass.
Campbell, W. G., Brantford, Ont.
Chamberlain, H. B., Montreal, Que.
Chandler, E. C., Montreal, Que.
Chaplin, H. L. S., St. John's, Newfoundland.
Church, H. C., Chelsea, Que.
Cowperthwaite, H. H., St. John's, Newfoundland.
Croft, L. V., B.A., Middleville, Ont.
Cumming, W. G., B.A., Montreal, Que.
Dickson, A. J., B.A., Goderich, Ont.
Donnelly, W. H., Ogdensburgh, N.Y.
Douglas, F. C., Montreal, Que.
Doyle, F. H., Natick, Mass.
Ebbett, P. L. B., Gagetown, N.B.
Elder, R., B.A., Trout River, Que.
Ells, R. H., B.A., Ottawa, Ont.
English, J. M., New Westminister, B.C.
Ferguson, W. H., St. Thomas, Ont.
Forbes, R. D., Stratford, Ont.
Fortin, C. E. F., B.A., Winnipeg, Man.
Freeze, E. H., Penobsquish, N.B.
Frost, A. C., Montreal, Que.
Gale, W. P., Quebec, Que.
Gilmour, C. R., Brockville, Ont.
Hansen, N. C., M.A., Portland, Maine.
Hardisty, R. H. M., B.A., Montreal, Que.
Horsfall, F. L., B.A., Montreal, Que.,
Hynes, W. T., Darnley, P.E.I.
Kenny, R. W., Ottawa, Ont.
King, R., B.A., Sackville, N.B.
Kissane, J. W., Chateauguay, N.Y.
Lamb, W. V., St. Andrews, N.B.
Laurie, Ernest, B.A., Montreal, Que.
Lundie, J. A., B.A., Montreal, Que.
Lyman, W. S., Ph.B., Knoxville, Tenn., U.S.A.
Lynch, A. L., Ottawa, Ont.
Macdonald, R. St. J., B.A., Bailey's Brook, N.S.
Mackenzie, W. A., Wood Islands, P.E.I.
MacKinnon, I. W., Charlottetown, P.E.I.
McCulloch, J. M., Durham, Ont.
McDiarmid, C. A., Kemptville, Ont.
McDonald, P. A., B.A., Dundee Centre, Que.
McDonald, S. H., B.A., St. John, N.B.
McEachern, I. W. T., Rockland, Ont.
McEwen, J. R., B.A., Dewittville, Que.
McGrath, F. C., Norway, P.E.I.

McGuigan, J. D., Kelly's Cross, P.E.I.
McKechnie, D. W., Dundas, Ont.
[illegible]
[illegible]
[illegible]
McLaughlin, E. M., Winona, Minn.
McPherson, Thos., B.A., Stratford, Ont.
[illegible]
[illegible]
Meindl, A. G., Mattawa, Ont.
Mitchell, I. E., B.A., Sherbrooke, Que.
[illegible]
Morris, S. C., Wallace, N.S.
Munroe, H. B., B.A., Almonte, Ont.
Munroe, H. E., St. Elmo, Ont.
Munro, J. H., Maxville, Ont.
Murray, J. S., St. John, N.B.
Nelson, J. S., Ottawa, Ont.
[illegible]
O'Brien, C. W., B.A., Montreal, Que.
O'Neill, J. M., Massena, N.Y.
Parris, N. D., Highlands, Barbadoes, W.I.
Patch, F. S., B.A., Montreal, Que.
Pavey, H. L., London, Ont.
Peterson, G. R., Toys Hill, Ont.
Puddington, B. A., St. John, N.B.
Rehfuss, W. N., B.A., Bridgewater, N.S.
Saunders, W. E., Woodstock, N.B.
Scott, W., Montreal, Que.
Secord, W. H., Brantford, Ont.
Shaw, D. Le B., Portland, Me.
[illegible]
Steeves, E. O., Upper Sackville, N.B.
Stowell, F. E., Worcester, Mass.
Strong, N. W., B.A., Cambria, Que.
Taggart, E. A., Ottawa, Ont.
Thomas, S. B., Barbadoes, B.W.I.
[illegible]
Truax, W., Farnham, Que.
Turner, G. H., B.A., Baie Verte, N.B.
Warren, J. G., Montreal, Que.
White, S. G., Ottawa, Ont.
Wilson, A., Russell, Ont.

Faculty of Comparative Medicine and Veterinary Science.

PASSED FOR THE DEGREE OF D.V.S.

Claw, Hugh.
Henderson, Colin M.
Paterson, John Herbert.

Scholarships and Exhibitions.

SESSION 1903-1904.

FACULTY OF ARTS

I. Third Year Scholarships. (Tenable for two years).

Name of Scholar.	Subjects of Examination.	Annual Value.
Chodat, Henri	Political Economy	$125.00
King, Louis V.	Mathematics and Logic	125.00
Idler, S. May	" " "	125.00
Lyman, Ruth	Natural Science and Logic	125.00

II. Second Year Exhibitions. (Tenable for one year).

Names of Exhibitioners.	Annual Value.
Rorke, Mabel L.	$125.00
Ryan, Esther L.	125.00

III. First Year Exhibitions. (Tenable for one year).

Names of Exhibitioners.	Annual Value.
McMillan, William	$300.00
King, Lucile Mabel	300.00
Couture, Louise Ida	150.00
Faton, Mary Judson	150.00
Smith, Annie	150.00
Bernstein, Moses M	150.00
Swift, Charles Sherman	150.00
Gould, E. M. Lawrence	125.00
Logan, Henry T.	125.00
Wilson, George Thomas	100.00
Vincent, Irving	100.00
Meldrum, Herbert T.	100.00
Macaulay, Gertrude Forster	112.00

FACULTY OF APPLIED SCIENCE.

Exhibitions and Prizes.

TO STUDENTS ENTERING THE THIRD YEAR.

MacDermot, Sidney G. F.	First Mathematical Prize.
Boyle, Robert W.	Second " "
Blanchet, Guy H.	Third " "
Fyshe, Thomas M.	First McCarthy Prize for Levelling and Transit Work.
Livingston, Douglas C.	Second McCarthy Prize for Levelling and Transit Work.

TO STUDENTS ENTERING THE SECOND YEAR.

Bell, George E.	Scott Exhibition.
McLachlan, D. William.	Scott Prize.

Students of the University.

SESSION 1903-1904.

Faculty of Law.

FIRST YEAR.

UNDERGRADUATES.

Calder, Robert Louis, B.A., Montreal, Q.
Couture, G. C. Papineau, B.A., Montreal, Q.
Crankshaw, James, Jr., Westmount, Q.
Downes, Patrick J., B.A., (Laval), Montreal, Q.
Johnson, Walter, S., B.A., Montreal, Q.
Legault, Joseph L. L., Montreal, Q.
McKenna, Francis E., B.A., (Laval), Montreal, Q.
Richards, Joseph A. T., Montreal, Q.
Shallow, T. J., B.A., (Laval), St. Anne de Bellevue, Q.
Shepherd, Simpson J., Calgary, Alberta, N.W.T.
Sperber, Marcus M., Montreal, Q.
Stackhouse, Russel T., Lachute, Q.

PARTIAL.

Christie, Wm. Leslie, M.A., (Edin.), Lachine, Q.
Kavanagh, Shirley F., Montreal, Q.
Tritt, Sam., Montreal, Q.

SECOND YEAR.

UNDERGRADUATES.

Coulin, James E., Montreal, Q.
Duffy, Fabian, J., Montreal, Q.
Greenshields, Charles G., Montreal, Q.
Harris, S. Dale, B.A., Ottawa, Ont.
Mathieu, Alexander P., B. S., (Laval), Montreal, Q.
Morin, L. S. Réné, B.A., (Laval), Montreal, Q.
Robertson, Kenneth Geo., B.A., (Bishop's), Sherbrooke, Q.
Tanner, Agénor Henry, Joliette, Q.
Wallace, Richard P., Coaticook, Q.

THIRD YEAR.

UNDERGRADUATES.

Angus, David James, B.A., (Cantab.), Montreal, Q.
Brodie, Hugh Horace, B.A., Westmount, Q.
Brosseau, Bernard L., Montreal, Q.
Chipman, Warwick F., B.A., Montreal, Q.
Cotton, William W., B.A., Sweetsburg, Q.
Dickson, Norval, B.A., Allan's Corners, Q.
DeWitt, Jacob, B.A., Montreal, Q.

Brown, Joseph, B.A., (Laval), St. Scholastique, Q.
Ker, Thomas R., Montreal, Q.
Lafond, Elisée, B. es Sci., (Laval), La Baie du Febvre, Q.
Mackie, Henry A., B.A., (Bishop's), Cookshire, Q.
McDougall, W. W. Malcolm Errol, Mattawa, Ont.
Ogilvie, Wm. Prescott, Chilliwack, B.C.
Phelan, M. A., B.A., (Bishop's), Montreal, Q.
Pope, Charles A., B.A., (Bishop's), Quebec, Q.
Stephens,, Laurence de K., B.A., Montreal, Q.
Vineberg, Abraham H., B.A., Montreal, Q.
Wadleigh, William W.,' B.A., (Bishop's), Kingsey, Q.
Williams, H. S., B.A., Knowlton, Q.

Faculty of Arts.

FIRST YEAR.

UNDERGRADUATES.

(McGill College.)

Allen, John Andrew, Huntingdon Academy, Aubrey, Q.
Armstrong, Geo. Dominion, Probationers' Class, Montreal Diocesan College, Ottawa, Ont.
Auld, Frederick Moore, Prince of Wales College, Charlottetown, P.E.I., Covehead, P.E.I.
Balon, David H., Montreal High School, Montreal, Q.
Balon, Isidore, Montreal High School, Montreal, Q.
Bartels, Reginald Cain, Private Tuition, St. Hyacinthe, Q.
Belyea, John Coles, Montreal High School, St. John, N.B.
Bernstein, Moses M., Montreal High School, Montreal, Q.
Cameron, David A., Huntingdon Academy, Dewittville, Q.
Cattanach, Finlay Alison, Alexandria (Ont.), High School, North Lancaster, Ont.
Chandler, Edward F., Montreal High School, Montreal, Q.
Cherry, Wilbur H., Woodstock College, Toledo, Ohio, U.S.A.
Cliff, Henry Wolsford, Montreal High School, Montreal, Q.
Creswell, Harris James, Lachute Academy, Lachute, Q.
Cushing, Dougall, Montreal High School, Montreal, Q.
Davis, Charles Wilfrid, Montreal High School, Montreal, Q.
Dawson, Victor Elliott, Ottawa Collegiate Institute, Ottawa, Ont.
*Elliott, Robert, Granby Academy, East Clifton, Q.
*Farman, Harold H., Stanstead Wesleyan College, Westfield, Vt.
Garvin, Arthur C., Stanstead Wesleyan College, Odelltown, Q.
Gould, Edwin M. L., Montreal High School, Montreal, Q.
Gwyn, Charles Campbell, Highfield School, Hamilton, Ont., Dundas, Ont.
Harrison, Ralph Douglas, Probationers' Class, Montreal Diocesan College, Montreal, Que.
Howard, William Lewis, St. John the Evangelist's School, Montreal, Montreal, Q.
Huntley, Herbert, Prince of Wales College, Charlottetown, P.E.I., Vernon River Bridge, P.E.I.
Johnston, Wm. Richard, Renfrew Collegiate Institute, Renfrew, Ont.
Logan, Henry Tremaine, Vancouver College, Preparatory Department, Eburne, B.C.
Magill, Lewis C., St. John the Evangelist's School, Montreal, Montreal, Q.
Meldrum, Herbert T., Ottawa Collegiate Institute, Hull, Q.

* Double course.

Morison, Hugh Gordon, The High School, St. John, N.B., Ormstown, Q.
MacDonald, Dalraddy L., Huntingdon Academy, Huntingdon, Q.
McDougall, Ewd. Stuart, Montreal High School, Westmount, Q.
Mackenzie, John Malcolm, Prince of Wales College, Charlottetown, P.E.I., Hartsville, P.E.I.
McMillan, William C., Prince of Wales College, Charlottetown, P.E.I., Montague, P.E.I.
Parsons, Howard G., Port Hope High School, Port Hope, Ont.
Patrick, Frank A., Montreal High School, Westmount, Q.
Penny, E. G. Trevor, Private Tuition, Montreal, Q.
Rider, Ezra Byron, Montreal High School, Fitch Bay, Q.
Riley, Charles Edward, Probationers' Class, Montreal Diocesan College, Montreal, Q.
Savage, Edward B., Montreal High School, Montreal, Q.
Silver, Samuel, Private Tuition, Montreal, Q.
Smith, Malcolm L., Westmount Academy, Westmount, Q.
Steedman, William Frew, Hutcheson's Boys' Grammar School, Glasgow, Scotland, Montreal, Q.
Swift, Sherman Charles, Petrolea High School, Petrolea, Ont.
*Taylor, Alexander Harold, Goderich Collegiate Institute, Goderich, Ont.
Turnbull, Kenneth, St. Alban's School, Brockville, Ont., Montreal.
Vincent, Irving, Stanstead Wesleyan College, St. Armand Centre, Q.
Wilson, George Thomas, Vancouver College, Preparatory Department, Vancouver, B.C.
Wood, Harold W., Montreal High School, St. Johns, Q.

(Royal Victoria College.)

Armstrong, Louise F., Miss Symmers and Miss Smith's School, Montreal, Montreal, Q.
Baylis, Inez M., High School for Girls, Montreal, Montreal, Q.
Blair, Isabella Edna, Dunham Ladies' College, Chicoutimi, Q.
Cheesbrough, Charlotte N., High School for Girls, Montreal, Westmount, Q.
Coates, Evelyn May, Halifax Ladies' College, Amherst, N.S.
Couture, Louise Ida, High School for Girls, Montreal, Montreal, Q.
Crawford, Emily C., High School for Girls, Montreal, Montreal, Q.
Eaton, Mary Judson, Private Tuition, Montreal, Q.
Engelke, Minnie E., High School for Girls, Montreal, Westmount, Q.
Hayden, Amy Jane, Westmount Academy, Westmount, Q.
Huxtable, Maggie, High School for Girls, Montreal, Montreal, Q.
James, A. Ethel, McGill Normal School, Montreal, Montreal, Q.
King, Lucile Mabel, High School for Girls, Montreal, Montreal, Q.
Kydd, Helen M., High School for Girls, Montreal, Montreal, Q.
Leacock, Rosamond, Orillia Collegiate Institute, Orillia, Ont.
Masson, Marian, Ottawa Collegiate Institute, Ottawa, Ont.
Mowatt, Edith M., High School for Girls, Montreal, Montreal, Q.
Macaulay, Esther E., High School for Girls, Montreal, Westmount, Q.
Macaulay, Gertrude F., Westmount Academy, Westmount, Q.
Macdiarmid, Katie, High School for Girls, Montreal, Montreal, Q.
Smith, Annie, High School for Girls, Montreal, Montreal, Q.
Thomas, Clara E. M., High School for Girls, Montreal, Montreal, Q.
Williams, Clara Louise, Stanstead Wesleyan College, Knowlton, Q.
Wisdom, Jennie Barnes, The High School, St. John, N.B., St. John, N.B.

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* *Double Course.*

CONDITIONED STUDENTS.

(McGill College.)

Bates, Frederick W., Probationers' Class, Montreal Diocesan College, Wolford Centre, Ont.
*Churchill, Lewis Piers, Lockeport Academy, Lockeport, N.S.
Crutchfield, Chas. Nelson, Huntingdon Academy, Huntingdon, Q.
Drysdale, Charles Wales, Montreal High School, Montreal, Q.
Gale, William Henry, Ormstown Academy, Ormstown, Q.
Goodchild, Ralph Henry, St. Lambert Model School, St. Lambert, Q.
Hancock, Thomas, Almonte High School, Richmond, Q.
Lemlein, Bertram Lionel, Bishop's College, Lennoxville, Montreal.
Morris, Abram A., Montreal High School, Montreal, Q.
Pelletier, Herman Enos, Probationers' Class, Montreal Diocesan College, Fulford, Q.
Poupore, Leo, Montreal, Q.
*Stewart, Alexander, Woodstock College, Ormond, Ont.

PARTIAL STUDENTS.

(McGill College.)

Argue, Robert Fletcher, Stittsville, Ont.
(3) Billings, Thomas H., Lyn, Ont.
Cranston, Wm. Thomas, Caledon East, Ont.
Dickson, John Martin, Holstein, Ont.
Drolet, Gaudiose, Quebec, Q.
Gilmour, Hamilton L., Ottawa, Ont.
Grahame, Dallas Forrest, Montreal, Q.
Letourneau, Marius, Montreal, Q.
(2) Lindsay, Lionel M., Montreal, Q.
Martin, Arthur John, Ottawa, Ont.
O'Sullivan, Patrick, Indian Lorette, Q.
Richards, Wm. Allinson, Pembroke, Ont.
(2) Ross, Alan Hamilton, Wimbledon, Eng.
Russell, Edward C., Ottawa, Ont.
Simpson, James Crawford, Montreal, Q.
Sims, George R. H., Montreal, Q.
Tessier, Joachim, Quebec, Q.
Wright, James Victor, Montreal, Q.

(Royal Victoria College.)

Allan, Marjorie L., Montreal, Q.
Baird, Katie Isabel, Woodstock, N.B.
Bell, Sarah Leslie, Montreal, Q.
Bernard, Helen F., Montreal, Q.
Bernstein, Miriam, Montreal, Q.
Boyd, Edith, Montreal, Q.
Boyd, Lizzie K., Montreal, Q.
Brown, Nellie, St. John, N.B.
Bryson, Belle Alicia, Montreal, Q.
Buchanan, Dorothy B., Montreal, Q.
Budden, Ellen Maude, Montreal, Q.
Carman, Harriet E., Montreal, Q.
Cole, Marion Cameron, Westmount, Q.
(3) Coristine, Mary S., Montreal, Q.

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* *Double Course.*

The figure (2) or (3) prefixed to a name indicates that the student takes a class in the corresponding year as well as in that where the name is found.

Cousins, Margaret V., Westmount, Q.
Creelman, Isobel Margaret, Montreal, Q.
Drysdale, Mary Grace, Montreal, Q.
Ekers, Catherine May, Montreal, Q.
Evans, Ruby B., Montreal, Q.
Forbes, Isobella S., Montreal, Q.
Fraser, Muriel MacD., Montreal, Q.
(2) Fyshe, Avis S., Montreal, Q.
Gillean, Elsie B., Montreal, Q.
Hamilton, Jessie Irene, Quebec, Q.
(2) Hannah, Jessie K., Montreal, Q.
Hannay, Helen Louise, St. Hilaire, Minn., U.S.A.
Harling, Elsie L., Westmount, Q.
(2) Heywood, Caroline G., Montreal, Q.
Hickson, C. Mabel, Montreal, Q.
Joseph, Marguerite M., Montreal, Q.
Kinloch, Elma, Mount Royal Vale, Q.
Lamb, Ethel Marguerita, Montreal, Q.
Levinson, Myrtie Victoria, Montreal, Q.
Levinson, Sara, Montreal, Q.
Liddell, Ethel Grace, Montreal, Q.
Loudon, May Bell, Westmount, Q.
Lyster, Alice Grace, Montreal, Q.
Mann, Juanita A., Montreal, Q.
(2) Meeker, Florence C.I., Montreal, Q.
(2) Mills, Annie, Westmount, Q.
Moore, Kathleen M., Montreal, Q.
McCrory, Catherine, Montreal, Q.
McKeown, Amy Florence, Montreal, Q.
Nutter, Harriet A., Montreal, Q.
Pedley, Norah Hilton, Montreal, Q.
Peel, Amy, Montreal, Q.
Ready, Constance Amy, Montreal, Q.
Renaud, Amy B. I., Montreal, Q.
Riley, Margaret May, Montreal, Q.
Robb, Vera, Amherst, N.S.
Robertson, Hazel Margt., Montreal, Q.
Ruthven, M.I. Clare, Montreal, Q.
Samuel, Gertrude, Montreal, Q.
Sclater, Ivy, Montreal, Q.
Shaw, Helen Brown, Montreal, Q.
Sheridan, Madeleine, Montreal, Q.
Smith, Myrtle Pearl, Montreal, Q.
Snowdon, Grace A., Mount Royal Vale, Q.
Snowdon, Neoma, Mount Royal Vale, Q.
(2) Stevens, Ruth, Stanstead, Q.
Stewart, Marion McL., Montreal, Q.
Thomson, Avis P., Montreal, Q.
Thompson, Eileen Burton, Westmount, Q.
Warrington, Gertrude, Montreal, Q.
Weston, Mae Anne, Montreal, Q.

SECOND YEAR.

UNDERGRADUATES.

(McGill College.)

Barclay, Gregor, Abingdon School, Montreal, Montreal, Q.
Carr, William L., Huntingdon Academy, Trout River, Q.

The figure (2) or (3) prefixed to a name indicates that the student takes a class in the corresponding year as well as in that where the name is found.

Clipperton, Wm. Henry, Thorold High School, St. Catharines, Ont.
Cousins, George Vipond, Westmount Academy, Westmount, Q.
Crocker, Stanley John, St. Thomas Collegiate Institute, St. Thomas, Ont.
[illegible] John McKee, Lachute Academy, Beech Ridge, Q.
Featherston, Joseph E., Streetsville High School, Streetsville, Ont.
*Freedman, Abraham, Montreal High School, Montreal, Q.
Gibb, Robertson W., Westmount Academy, Westmount, Q.
*Hendry, Andrew W., Liverpool Academy, N.S., Liverpool, N.S.
Henry, Robert A. C., Westmount Academy, Montreal, Q.
Housser, George Elliott, Portage La Prairie Collegiate Institute, Portage La Prairie, Man.
Kirsch, [illegible], Montreal High School, Montreal, Q.
Lewis, [illegible], Montreal High School, Montreal, Q.
Lyman, C. Sydney, Montreal High School, Montreal, Q.
Marcuse, [illegible], Westmount Academy, Westmount, Q.
Mundie, Gordon Stewart, Westmount Academy, Westmount, Q.
*McCallum, John S., Smith's Falls High School, Smith's Falls, Ont.
McGuire, Walter L., Probationers' Class, Montreal Diocesan College, Aylwin, Q.
MacLeod, Alex. R., Prince of Wales College, Charlottetown, P.E.I., Cigg, P.E.I.
Naylor, R. Kenneth, Shawville High School, Shawville, Q.
Newman, Harry, Montreal High School, Montreal, Q.
Payne, Chester Harold, Ottawa Collegiate Institute, Ottawa, Ont.
Pease, Edson Raymond, Montreal High School, Montreal, Q.
Peterson, William Gordon, Hill Side School, Godalming, Surrey, Eng., and Crichton School, Montreal, Montreal, Q.
Rogers, David B., Probationers' Class, Montreal Diocesan College, Watford, Ont.
Ross, Allan, Montreal High School, Montreal, Q.
Scott, C. Hope, Abingdon School, Montreal, Montreal, Q.
Shaw, Herbert Thaxter, Montreal High School, Montreal, Q.
Shearer, James Russell, Ottawa Collegiate Institute, Sherbrooke, Q.
Stafford, F. Montague A., Montreal High School, Montreal, Q.
Vineberg, Solomon, Sherbrooke Academy, Sherbrooke, Q.
Waugh, Oliver S., Montreal High School, Westmount, Q.

(Royal Victoria College.)

Braidwood, Helen, Westmount Academy, Westmount, Q.
Clark, Birdena Maude, Harbord St. Collegiate Institute, Toronto, Ont., Montreal, Q.
Douglas, Anna Lilian, Ottawa Collegiate Institute, Ottawa, Ont.
[illegible], [illegible], Niagara Falls Collegiate Institute, Ridgeville, Ont.
[illegible], [illegible], High School for Girls, Montreal, Q.
Fraser, Mabel G. S., Girls' High School, Quebec, Quebec, Q.
Gillmor, Blanche C., Trafalgar Institute, Montreal, Westmount, Q.
Holway, Ruth, Decorah High School, Decorah, Iowa, U.S.A.
Murray, Mabel [illegible], Ellinwar School, Cambridge Mass., Summerside, P.E.I.
Mowatt, E. L. Rae, High School for Girls, Montreal, Montreal, Q.
Rorke, Mabel L., St. Thomas Collegiate Institute, Montreal, Q.
Ryan, Esther L., High School for Girls, Montreal, Burk's Falls, Ont.

[illegible]

(McGill College.)

(3) Allison, W. Seymour, B. Sc., Yoho, N.S.
(3) Cousins, [illegible], Westmount Academy.

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* *Double Course.*

The figure (2) or (3) prefixed to a name indicates that the student takes a class in the corresponding year as well as in that where the name is found.

Dawson, Ernest Edward, Stonefield, Q.
Hannah, Richard M., Copper Cliff, Ont.
Kennedy, Alex. Howard, Bath, Ont.
(3) Landman, Rev. Isaac, Montreal, Q.
(3) McIlroy, James, Castlewellan County, Down, Ireland.
Ross, Walter, Uptergrove, Ont.
Tucker, Walter L., Sorel, Q.

(*Royal Victoria College.*)

Brown, E. Marguerite, Montreal, Q.
Draper, Kathleen Edith, Westmount, Q.
Fogarty, Amy, Montreal, Q.
Fogarty, Lena, Montreal, Q.
Hodge, Laura Ethel, Montreal, Q.
Kerr, Vera Oswald, Montreal, Q.
LaChance, Maud, Montreal, Q.
Mole, Harriet J., Montreal, Q.
Macfarlane, Elsie J., Montreal, Q.
Mackay, Cairine R., Montreal, Q.
Robertson, Marjory B., Montreal, Q.
Trench, Nora C., Montreal, Q.
Vipond, A. Constance, Montreal, Q.
Williams, Ethel S., Montreal, Q.

THIRD YEAR.

UNDERGRADUATES.

(*McGill College.*)

Adams, Claude A., Franklin Centre, Q.
Blanchard, Charles R. S., Winnipeg, Man.
Cameron, A. W., Montreal, Q.
Chodat, Henry, Pointe aux Trembles, Q.
Colgrove, Wm. Gladstone, London, Ont.
Cotton, Thomas F., Cowansville, Q.
Crane, Charles W., Montreal, Q.
Cross, C. Ernest, Melbourne, Q.
Curtis, Walter Edgar, South Milton, P.E.I.
Fraser, George Alexander, Montreal, Q.
Graham, John Holmes, Winnipeg, Man.
Halpenny, T. A., Bear Brook, Ont.
Howitt, Henry, Guelph, Ont.
Hyde, George Gordon, Westmount, Q.
Jenkins, Joseph, Montreal, Q.
King, Louis Vessot, Montreal, Q.
*Locke, Ernest Ewen, Westmount, Q.
Luttrell, Henry Percival, Montreal, Q.
McFee, M. C. Coll., Montreal, Que.
McMurtry, Rennie Ogilvy, Montreal, Q.
Ower, John James, Smith's Falls, Ont.
Perry, Kenneth Meikle, Regina, Assa., N.W.T.
*Rabinovitch, Max, Montreal, Q.
Robinson, Fred'k. Gerald, St. John, N.B.
Robinson, William Wynne, Granby, Q.
Roy, Philias Rufus, East Angus, Q.

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* *Double Course.*

The figure (1), (2) or (3), prefixed to a name, indicates that the student takes a class in the corresponding year as well as in that where the name is found.

Stewart, Thomas S., Montreal, Q.
Stewart, William, Montreal, Q.
*Tannenbaum, David, Montreal, Q.
Tupper, Charles Stewart, Armstrong's Point, N.B.

(Royal Victoria College.)

Bowman, Nora F. J., Montreal, Q.
Gillean, A. Muriel, Montreal, Q.
Healy, Rose E., Smith's Falls, Ont.
Hepburn, Flora E., Lachine, Q.
Hill, Julia M., St. Stephen, N.B.
Hitchcock, Mary Alice, Compton, Q.
Idler, S. Mary, Montreal, Q.
Kimber, Victoria C., Montreal, Q.
Lyman, Ruth Delia, Montreal, Q.
Michaels, Rosebud F., Montreal, Q.
Moule, Francis S., Ridgeway, Ont.
Munn, Laura A., Montreal, Q.
McCoy, Isabel, Montreal, Q.
Pearson, Mary Frances, Halifax, N.S.
Smith, Ella L., St. John, N.B.
Smith, May, Montreal, Q.
Taber, Marion M.D., South Granby, Q.

PARTIAL STUDENTS.

(McGill College.)

Anthony, Silas Whitman, Lower Selmah, N.S.
Christie, William Leslie, Edinburgh, Scotland.
(4) Foote, James, Varna, Ont.
Gates, Reginald Ruggles, Middleton, N.S.
May, William Herbert, Forrester's Falls, Ont.
(4) Morgan, W. Burton, Hartland, N.B.
MacTavish, Newton McF., Seaforth, Ont.

(Royal Victoria College.)

Binks, Isabel Bancroft, Westmount, Q.
Hamilton, Edith Craigie, Quebec, Q.
Laing, Ruth Marguerite, Montreal, Q.
Macqueen, Georgine, New Glasgow, N.S.
Pendergast, Florence M., Montreal, Q.
Smith, Jennie Campbell, Morrisburg, Ont.

FOURTH YEAR.

UNDERGRADUATES.

(McGill College.)

Archibald, John Gordon, Montreal, Q.
Brown, William Gordon, Montreal, Q.
Campbell, Donald Grant, Montreal, Q.
*Chandler, Arthur B., Montreal, Q.
*Dickenson, John Goodall, Hazel Hill, N.S.
*Fripp, George Downing, Montreal, Q.

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* *Double Course.*

The figure (2), (3) or (4), prefixed to a name, indicates that the student takes a class in the corresponding year as well as in that where the name is found.

*Gray, Edwin Herbert, Montreal West, Q.
*Gurd, Fraser B., Montreal, Q.
*Harvie, Robert, Westmount, Q.
Healy, Walter Joseph, Richmond, Q.
Hindley, John George, Oustic, Ont.
Lathe, Frank E., Lacolle, Q.
Logan, David Cameron, Montreal, Q.
*Lomer, Theodore Adolf, Montreal, Q.
Marshall, William W., Montreal, Q.
Mingie, George W., Montreal, Q.
Molson, Walter, Montreal, Q.
Mowatt, Edward E., Montreal, Q.
*McDiarmid, James Stott, Ingersoll, Ont.
McDonald, George C., Montreal, Q.
MacFarlane, Chas. McK., Aubrey, Q.
McGougan, Edward, Glencoe, Ont.
Mackenzie, Angus D.M., Hartsville, P.E.I.
Papineau, Talbot M., Montreal, Q.
Rose, Herbert Jennings, Hamilton, Ont.
Rubinowitz, Israel S., Vancouver, B.C.
Shanks, George, Howick, Q.
Sheldon, Ernest Wilson, Cornwall, Ont.
Stewart, J. Ure, Goderich, Ont.
Walker, James H. E., Westmount, Q.
*Wickware, Francis Graham, Easton's Corners, Ont

(Royal Victoria College.)

Bell, Ruth, Montreal, Q.
Bouchard, Myra MacLaren, Montreal, Q.
Brooks, Elizabeth Agnes, Montreal, Q.
Craig, Bessie, Montreal, Q.
Dickson, Ada Delta, Pembroke, Ont.
Draper, Madolin Augusta, Montreal, Q.
Ellison, Ada Agnes, Cowansville, Q.
Freeze, Helen Louise, St. John West, N.B.
Gardner, Helen Ivy L., Montreal, Q.
Griffin, Grace L., Toronto, Ont.
Hadrill, Margaret F., Montreal, Q.
Hart, Ethel Muriel, St. Lambert, Q.
Henry, Alice O. E., Tamworth, Ont.
McCally, Mary Kathleen, St. Thomas, Ont.
Mackenzie, Catherine I., Montreal, Q.
Macleod, Annie Louise, Glace Bay, C.B.
Robertson, Ethel Caroline, Westmount, Q.
Simpson, Edith Phœbe, Montreal, Q.
Stewart, Lillian Joyce, Ottawa, Ont.
Wilson, Alice Muriel, Montreal, Q.

GRADUATES.

Davidson, Macfarlane, Ottawa, Ont.
Fee, James Erwin, Farnham, Q.
Lomer, Gerhard R., Montreal, Q.
Lundie, Helen, Montreal, Q.
Morgan, Frederick C., Montreal, Q.
Troop, George W. N., Montreal, Q.

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* *Double Course.*

Faculty of Medicine.

FIRST YEAR.

UNDERGRADUATES.

Adcock, John Paul, Bath, England.
Anderson, Wm. Thomas, Montreal, Q.
Arthur, James Ross, Perth, Ont.
*Auld, Frederick Moore, Covehead, P.E.I.
Bechtel, Arthur Daniel, Victoria, B.C.
Benvie, Robert Maclean, Salt Springs, N.S.
Bernstein, David H., Montreal, Q.
Bray, Dallas Gilbert, Sherbrooke, Q.
Brigham, Elbert Sidney, B.Sc., St. Albans, Vt., U.S.A.
Brydone-Jack, Frederick Wm., Vancouver, B.C.
Carnell, Arthur Henry, St. John's, Nfld.
Carruthers, Frederic James, Ford's Mills, N.B.
*Churchill, Lewis Piers, Lockeport, N.S.
Coborn, Josiah, Newton Robinson, Ont.
Covey, Herman Walter, Everett, Mass., U.S.A.
Davis, Stephen, Montreal, Q.
Denovan, Botsford, Montreal, Q.
Dixon, John Albert, Almonte, Ont.
*Drew, John MacOuat, Beech Ridge, Q.
Edwards, William Ferdinand, Bishop's Mills, Ont.
Eggert, Charles Albert, Vancouver, B.C.
*Elliott, Robt., East Clifton, Q.
Enwright, William Edward, M.A., Sherbrooke, Q.
*Farman, Harold Heber, Westfield, Vt., U.S.A.
Farris, Hugh Allan, White's Cove, N.B.
*Freedman, Abraham, Montreal, Q.
Friel, Joseph, Montreal, Q.
Girvin, Robert Goldie, Rexton, N.B.
Graham, Douglas Wm., Arundel, Q.
Hawkins, Zadok, Sussex, N.B.
Healy, James Joseph, Smith's Falls, Ont.
*Hendry, Andrew Whitman, Liverpool, N.S.
Holman, William Ludlow, B.A., Summerside, P.E.I.
Johnson, Arthur Livingstone, B.A., North Sydney, C.B.
Kean, Samuel Garfield, Brookfield, Nfld.
Keay, Thos., New Glasgow, N.S.
Kennedy, Alan Hugh Neville, Macleod, Alta., N.W.T.
Lake, Walter E., Ridgetown, Ont.
Landry, Arthur Raymond, Dorchester, N.B.
Lannin, George Edward Jurben, South Mountain, Ont.
*Locke, Ernest Ewen, Westmount, Q.
Lynch, John George Brooks, Almonte, Ont.
MacLachlan, Wm. Watt Graham, Guelph, Ont.
*McCallum, John S., Smith's Falls, Ont.
McCann, James Henry, South Framingham, Mass., U.S.A.
McCowen, Gerald Roche, St. John's, Nfld.
McGarvey, Owen, Ottawa, Ont.
McGrath, Maurice James, Ogdensburg, N.Y., U.S.A.
McLennan, Alexander Livingstone, B.A., Lancaster, Ont.
McNab, Norman A., Montreal, Q.
Mulgrew, Thomas Bernard, Clinton, Mass., U.S.A.
*Newman, Harry, Montreal, Q.
Oliver, Charles Warren, Westville, N.S.
Oulton, Merville Allen, B.A., Julicure, N.B.
Peltier, Henry George, Fort William, Ont.

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* *Double Course.*

Peters, Henry Le Baron, B.A., St. John, N.B.
Porter, James Franklin Selleck, Powassan, Ont.
Quinn, Frank Patrick, Ottawa, Ont.
*Rabinovitch, Max., Montreal, Q.
Robinson, Robert Charles, Winchester, Ont.
Rodrigues, Emanuel Theophilus, St. Kitts, W.I.
Ross, Colin Eric, Westmount, Q.
Rublee, Orson Elroy, B.A., North Hatley, Q.
Ryan, Edward Joseph, St. John, N.B.
Sawyer, Carl Dore, A.B., Lewiston, Me., U.S.A.
Shankel, Fred. Raymond, B.A., Hubbard's Cove, N.B.
Shirreffs, Heber Simon, Clarence, Ont.
Sinclair, George William, Boston, Mass., U.S.A.
Sparks, John James, St. John's, Nfld.
Speer, Robert Brandon, Danville, Q.
Stein, Seymour Finket, Kemptville, Ont.
Stephens, George Findlay, Winnipeg, Man.
Stevenson, Arthur B., New Glasgow, P.E.I.
*Stewart, Alexander, Ormond, Ont.
*Tannenbaum, David, Montreal, Q.
Thomas, Frank Henry, B.A., Somerset, N.S.
Thomson, James W., Mattawa, Ont.
Townsend, Frederick Albert, Mount Pleasant, Ont
Trufant, Lester Hall, A.B., Auburn, Me., U.S.A.
Vesey, Eustace Morton, Little York, P.E.I.
Waddell, Jerrold Ross, Chatham, Ont.
Wallace, Irwin, Belleville, Ont.
*Waugh, Oliver S., Montreal, Q.
Whitelaw, William Albert, Meaford, Ont.
Wilson, Murray James, Hamilton, Ont.
Woodrow, James Burgess, Beaconsfield, Ont.
Wright, Robert Percy, Montreal, Q.

CONDITIONED STUDENTS.

Blanchard, Harold Blake, Mallorytown, Ont.
Bonness, Edmund John, St. Stephen, N.B.
Crawford, John W., Courtenay, B.C.
Fraser, Lewis Hayes, Truro, N.S.
Fraser, Simon Bothwell, Richmond, Q.
Gabie, William G., Brockville, Ont.
Gray, William Everett, Campbellton, N.B.
Grier, Reginald Theophilus, Priceville, Ont.
Harry, Archippus Cecil, Kingston, Jamaica.
Lahey, John James, Southboro, Mass., U.S.A.
Logie, Frederick George, Chatham, N.B.
McNaughton, Duncan Alex., Finch, Ont.
Paterson, John Harwood, Ramsay, Ont.
Taylor, George Oscar, Hillsboro, N.B.

PARTIAL STUDENTS.

McKay, William Henry, Ottawa, Ont.
Ship, Abraham Philip, Montreal, Q.

SECOND YEAR.

UNDERGRADUATES.

Allen, Hanson, Cape Tormentine, N.B.
Amberman, Edwin Knowles, Granville Ferry, N.S.
Baird, Walter S., Brucefield, Ont.

* *Double Course.*

Bayley, Alexander H., Bridgetown, Barbados, B.W.I.
Bonelli, Vincent, Jr., Ste. Agathe des Monts, Q.
Budyk, James S., Montreal.
Burke, George H., Ogdensburg, N.Y., U.S.A.
Cameron, Allan Barton, Lancaster, Ont.
Chandler, Arthur B., Montreal.
Christie, Hugh H., Martintown, Ont.
Clarke, Frederick C., Coverley Plantation, Barbados, B.W.I.
Cole, William H., Westmount, Q.
Crowe, Henry S., B.A., Central Onslow, N.S.
Dearborn, Henry F., Malden, Mass., U.S.A.
Donnelly, James H., Iroquois, Ont.
Elliott, Milton H., Prescott, Ont.
Fairie, James Arthur, Montreal.
Field, Burton R., Port Elgin, N.B.
Flegg, Robert F., Ottawa, Ont.
Forbes, Arthur Edward Grant, Little Harbor, N.S.
Fraser, David R., Montague Bridge, P.E.I.
Fraser, Thomas B., Liverpool, N.S.
*Fripp, George D., Montreal.
Garcelon, Wm. Skelton, A.B., Lewiston, Me., U.S.A.
Gillies, George E., Teeswater, Ont.
Gourley, Henry B., Ph.B., Montreal.
*Gray, Edwin H., Montreal West, Q.
Green, Thomas B., B.A., Virden, Man.
Gross, Charles Joseph, Montreal.
Groves, Osler M., Carp, Ont.
Gunn, Alexander K., Lancaster, Ont.
*Gurd, Fraser B., Montreal.
Hackett, John Francis, B.A., Meriden, Conn., U.S.A.
Hammond, James Felton, Ironside, Q.
Hand, William Thos., Montreal.
Hardy, Alburne N., Allendale, N.S.
Henderson, Smith, Ottawa, Ont.
Hewitt, Thos. Joseph, Montreal.
Hillman, Oliver S., Hamilton, Ont.
Hils, Oswald Herman, B.L., Woonsocket, R.I., U.S.A.
Hollbrook, Robert E., Boissevain, Man.
Holden, Charles P., St. John, N.B.
Howlett, George P., Ottawa, Ont.
Hunter, Archibald W., Durham, Ont.
Hunter, Joseph Douglas, Victoria, B.C.
Hunter, Thomas V., East Florenceville, N.B.
Huycke, Austin H., Warkworth, Ont.
Johnson, Brougham F., Midland, N.B.
Joughins, Jas. Louis, Los Angeles, Cal., U.S.A.
Keddy, Owen B., B.A., Milton, N.S.
Kelly, Arthur E., Meaford, Ont.
Kerfoot, Herbert W., Smith's Falls, Ont.
Kinloch, Charles A., Martintown, Ont.
Lindsay, Edwin A., B.A., Calgary, Alta., N.W.T.
*Lomer, Theodore A., Montreal.
Lyon, George R. D., Ottawa, Ont.
MacArthur, Reginald S., Summerside, P.E.I.
MacCallum, John Duncan, Guy, Montreal.
MacDonald, Purdy A., Alma, N.B.
MacLeod, John M., Quincy, Mass., U.S.A.
McArthur, Clarence O., Summerside, P.E.I.
McCormick, Alexander S., Westmount, Q.
*McDiarmid, James S., Ingersoll, Ont.
McDonald, John N., Shelburne, N.S.
McDougald, Wilfred L., Cornwall, Ont.

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* *Double Course.*

McKenzie, John, Holstein, Ont.
McMillan, John A., Finch, Ont.
McNaughton, George K., Black River, N.B.
McPhee, Judson T., Courtenay, B.C.
Mabee, Oliver R., Ph.B., Vittoria, Ont.
Mair, William L., Clinton, Ont.
Malcolm, Donald C., St. John, N.B.
Michaud, Napoleon, Campbellton, N.B.
Monahan, Richard J., Montreal.
Morgan, J. D.
Morrison, John Christopher, Vancouver, B.C.
Muir, David H., Jr., Truro, N.S.
Muir, Walter L., Truro, N.S.
Munroe, Alex. R., Woodstock, Ont.
Munroe, Frederick D., Moose Creek, Ont.
Nathan, David, Montreal.
Noole, Ermy Courser, Randolph, Vt., U.S.A.
Parsons, William H., Harbour Grace, Nfld.
Patterson, William J., B.A., Moncton, N.B.
Payne, Gerard A. L., Georgetown, British Guiana.
Peat, Gilbert B., Andover, N.B.
Raftery, Charles Raymond, Montreal.
Ralph, Albert J., Ph.B., Montreal.
Ritchie, Charles A., B.A., Winnipeg, Man.
Robbins, Evelyn Edwin, Halifax, N.S.
Rothwell, Oswald E., B.A., Regina, N.W.T.
Scott, Walter H., Edmonton, N.W.T.
Shaw, Robert McL., B.A., Penobsquis, N.B.
Sheahan, John J., Haley's Station, Ont.
Sims, Herbert L., Ottawa, Ont.
Tilley, Alexander R., Ottawa, Ont.
Turnbull, James Wm., Springhill, Ont.
Walker, Jno. J., B.A., Ormstown, Q.
Wallace, Carl T., Eureka, Cal., U.S.A.
Walsh, Cornelius Edward, Jordan Falls, N.S.
Weldon, Richard C., Jr., Halifax, N.S.
White, John H., Ottawa, Ont.
Williams, Cyril S., Tyne Valley, P.E.I.
Wilson, Arthur A., Perth, Ont.
Wolff, Edward K., B.A., Hamilton, Bermuda.
Young, Alex. McG., B.A., Millsville, N.S.

THIRD YEAR.

UNDERGRADUATES.

Alguire, Alexander R., Cornwall, Ont.
Auld, John W., Covehead, P.E.I.
Blanchet, Sidney Francis N., Ottawa, Ont.
Brown, Fred. F., Cornwall, Ont.
Brown, Gordon T., Danville, Q.
Burgess, Harry C., Sheffield Mills, N.S.
Cameron, Allan B., Lancaster, Ont.
Chisholm, Hugh A., B.A., Linwood, N.S.
Connor, Edward L., Berlin, Ont.
Costello, Joseph W. W., B.A., Montreal.
Covernton, Charles F., Montreal.
Cumming, Alison, B.A., Scotsburn, N.S.
Dougan, Benjamin H., Hampstead, N.B.
Dowler, William H., Billings Bridge, Ont.
Dudderidge, Charles R., B.A., Winnipeg, Man.
Duggan, Richard G., Hamilton, Ont.
Dykes, J. Watson, Nanaimo, B.C.
Ewart, David, Ottawa, Ont.
Finigan, Joseph F., Oshawa, Ont.

Geddes, Robert Walter, B.A., Desoronto, Ont.
Gill, Frederic D., St. John's, Newfoundland.
Grimmer, Roy D., St. Andrews, N.B.
Hanington, Darrel P., Victoria, B.C.
Hanington, John W. B., Victoria, B.C.
Heagerty, John J., Montreal.
Henderson, Ernest H., B.A., Franklin Centre, Q.
Henry, Edward G., B.A., Lennoxville, Q.
Hume, Gordon M., Leeds Village, Q.
Inksetter, Frank Stewart, Dundas, Ont.
King, Shenton S., Albert, N.B.
Leslie, Howard A., Souris, P.E.I.
Likely, David S., B.A., St. John, N.B.
Loggie, William S., Chatham, N.B.
MacDermot, John H., Gordon Town, Jamaica.
MacDonald, John P., Montreal, Q.
MacKay, Malcolm E., Whycocomagh, N.S.
MacLean, John D., Beaton's Mills, P.E.I.
McDonald, John A., B.A., Valleyfield, Q.
McDonald, John C., Peake's Station, P.E.I.
McIntosh, Gustavus J., Dalkeith, Ont.
McMeekin, Robert J., M.D., Plattsville, Ont.
McMicking, Antony E. T., Victoria, B.C.
McMurtry, Shirley O., B.A., Montreal.
McMurtry, Walter C., Port Hope, Ont.
McNaughton, William B., St. Raphael West, Ont.
Margolese, Oscar, Montreal.
Mason, James H., Lachute Mills, Q.
Melik-Vartanian, Hakob, Tabriz, Persia.
Mercer, Thomas C., Chilliwack, B.C.
Mersereau, Harris C., Doaktown, N.B.
Miller, Allan P., Chatham, Ont.
Mohr, Frederick W.C., Arnprior, Ont.
Moffatt, Charles F., B.A., Montreal.
Muckleston, Harold S., M.A., Perth, Ont.
Mulligan, James W., Omemee, Ont.
Munro, John A., Pugwash, N.S.
Nelles, Thomas R. B., Simcoe, Ont.
Petersky, Samuel, Vancouver, B.C.
Prendergast, Archer R., B.A., Montreal.
Pruyn, William G., B.A., Napanee, Ont.
Richards, Ernest T. F., St. Vincent, B.W.I.
Risher, Frank Osburn, Dravosburg, Pa., U.S.A.
Robertson, Alexander R., Victoria, B.C.
Robertson, Beverley W., St. John, N.B.
Rommel, Ernest, Alma, N.B.
Ryan, Lorne McD., B.A., Newburgh, Ont.
Sawyer, Alpha R., Roslindale, Mass., U.S.A.
Scott, William J., B.A., Montreal.
Scrimger, Francis A. C., B.A., Montreal.
Seifert, Frederick Wm., B.A., Quebec, Q.
Sinclair, Ernest E., Summerside, P.E.I.
Somerville, Harry A., Eustis, Q.
Styles, William A. L., Montreal.
Sullivan, James A., Arnprior, Ont.
Sweeney, John L., B.A., Dover, N.H., U.S.A.
Tees, Frederick J., B.A., Montreal.
Tierney, James E., Niagara Falls, N.Y., U.S.A.
Tull, John A. C., Antigua, B.W.I.
Turnbull, Ernest G., Branchton, Ont.
Valin, Romuald E., Ottawa, Ont.
Viner, Norman, B.A., Montreal.
Waterman, Chester, Ogdensburg, N.Y., U.S.A.
Wilkinson, William MacDonald, Woodstock, Ont.

Winder, John Brimsley, B.A., Compton, Q.
Wood, Gilbert O., Kenmore, Ont.
Young, Charles A., Ottawa, Ont.

PARTIAL STUDENT.

Barton, Edward Robert, Montreal.

FOURTH YEAR.

UNDERGRADUATES.

Ainley, Lawrence T., B.A., Almonte, Ont.
Ainley, William E., B.A., Hamilton, Bermuda.
Alford, John H., Ottawa, Ont.
Arnold, Duncan R., B.A., St. John, N.B.
Atkinson, Hubert S., Hants Harbour, Newfoundland.
Auston, James Burrell, Brighton, Ont.
Bailey, Geo. Whitman, Fredericton, N.B.
Bentley, John S., B.A., Truro, N.S.
Black, John C., Oxford, Ont.
Blakeman, Frederick Walton, Stratford, Ont.
Bonin, Raoul P., Montreal.
Briggs, John Alfred, New Westminster, B.C.
Carnochan, Wm. Lorne C., Montreal.
Charman, Frank D., Wallace, N.S.
Chipman, William W., Ottawa, Ont.
Coffin, John W., Mt. Stewart, P.E.I.
Cook, William J., Coboconk, Ont.
Crack, Isaac E., B.A., Kingsbury, Q.
Cram, William Jackson, Philadelphia, Pa., U.S.A.
Crosby, Percy C., Marshfield, P.E.I.
Crowell, Bowman C., B.A., Yarmouth, N.S.
Davidson, Harry, D. J., Sherbrooke, Q.
Dickson, William Howard, Pembroke, Ont.
Dillon, William P., Iroquois, Ont.
Douglas, Edgar, B.A., Halifax, N.S.
Dunn, John F., Elgin, Ont.
Eaton, Charles E., Stanbridge East, Q.
Faulkner, James A., B.A., Stirling, Ont.
Fisher, Ernest M., Blue Bonnets, Q.
Fisher, Franklin, Bay of Islands, Q.
Folkins, Clarence G., Millstream, N.B.
Ford, Henry S., Vancouver, B.C.
Fraser, Samuel, Leeds, Q.
Fyshe, James C., A.B., Montreal.
Gibson, Gordon M., Huntington, N.Y., U.S.A.
Gibson, Richard, Nanaimo, B.C.
Gillis, John E., Darlington, P.E.I.
Gillis, John Howard, Metapedia, Q.
Gilroy, James R., Springhill, N.S.
Gormely, Joseph C., Finch, Ont.
Graham, Richard W., Sawyerville, Q.
Grant, Nelson P., Woodstock, N.B.
Greenwood, William T., St. Catharines, Ont.
Harrison, Laurie L., B.A., Maccan, N.S.
Hogan, Frederick J., Tignish, P.E.I.
Hotchkiss, Edward Alfred, Collinsville, Conn., U.S.A.
Howitt, Henry O., Guelph, Ont.
Hutchinson, John Wm., Westmount, Q.
Johnson, John G. W., B.A., Montreal.
Judson, Arthur H., Lyn, Ont.
Kerr, Harry H., Washington, D.C., U.S.A.
Keys, James M., Hulbert, Ont.

Lauchland, Lyman C., B.A., Oshawa, Ont.
Lincoln, William A., Stanstead, Q.
Lippiatt, Havelock T., Montreal.
Losier, Arthur J., Tracadie, N.B.
MacKenzie, Angus B., Springfield, P.E.I.
MacKid, Ludwig S., Calgary, Alta.
MacIntosh, Lorne DeC., Dundela, Ont.
McKenty, Frank, Winnipeg, Man.
McKenzie, Robert P., Plainfield, Ont.
McLachlan, Donald C., Lochaber Bay, Q.
McLeod, William A., Finch, Ont.
Markson, Simpson M., Glen Robertson, Ont.
Martin, John C., Whitechurch, Ont.
Meakins, John C., Hamilton, Ont.
Miller, Clarence, Stellarton, N.S.
Miller, Vernon L., B.A., Bear River, N.S.
Moses, Harry Clarke, Caledonia, Ont.
Murphy, Herbert H., B.A., Antrim, Ont.
Nagle, Sarsfield M., Almonte, Ont.
Nutter, John A., B.A., Montreal.
Park, Andrew Walter, Durham, Ont.
Preston, Charles E., Ottawa, Ont.
Price, Joseph, Campbellton, N.B.
Quain, Bernard P., Brushton, N.Y.
Rankin, Allan C., Montreal.
Reford, Lewis L., B.A., Montreal.
Richardson, Charles A., East Jefferson, Me., U.S.A.
Richardson, Cheslie A. C., B.A., Sydney, C.B.
Robinson, John L., St. Mary's, Ont.
Rogers, James T., B.A., Montreal.
Sellery, Albert C., Phm.B., Kincardine, Ont.
Sims, Haig A., Montreal.
Smith, Charles Murdoch, Red Mountain, Q.
Smith, William A., B.A., Almonte, Ont.
Stewart, John A., Norborough, P.E.I.
Tanner, Charles Augustus Henry, Windsor Mills, Q.
Warwick, Wm., St. John, N.B.
White, Percival G., Woodstock, Ont.
Wigle, Charles A., Wiarton, Ont.
Wilkins, Frederick Fielding, Montreal.
Wilson, Omar M., Smith's Falls, Ont.
Wilson, Thomas R., B.A., Carp, Ont.
Winfrey, William C., B.L., Sault Ste. Marie, Mich., U.S.A.
Wood, Harry G., Faribault, Minn., U.S.A.
Wood, William H., Montreal.
Wright, George A., Stony Creek, N.B.
Yorston, Frederic P., M.A., Outremont, Q.

Faculty of Applied Science.

FIRST YEAR.

UNDERGRADUATES.

Allan, Marshall Glenn, Perty, Ont.
Archibald, Howard M., Montreal, Q.
Beaton, Norman H., St. Catharines, Ont.
(2) Beaudry, Abel C., Montreal, Q.
Black, Hiram Johnson, Amherst, N.S.
Bonhomme, Armand, Montreal, Q.

The figures (1), (2), (3) or (4), prefixed to a name, indicates that the student takes a class in the corresponding year as well as in that where the name is found.

Brooks, Charles Edward, Grafton, Ont.
Brown, Lindsay O., Kemptville, Ont.
Brown, Samuel Barton, Ottawa, Ont.
Callaghan, John C., Hamilton, Ont.
Cantley, Charles Lang, New Glasgow, N.S.
(2) Carlyle, Russell, Woodstock, Ont.
(2) Daly, William John, Montreal, Q.
Davis, Allan Edwy., Grenfell, Assa., N.W.T.
Davis, George Houghton, Gananoque, Ont.
Drummond, George Drysdale, Midland, Ont.
Elliott, Percy Harris, Saskatoon, Sask., N.W.T.
Ellis, Robert Coleridge, O'Leary, P.E.I.
Engel, Nathan L., Montreal, Q.
Eveleigh, Joseph B., Montreal, Q.
Filer, Samuel Walter, Montreal, Q.
Forbes, Fred. Warren, Little Harbour, N.S.
Foster, Henry Stuart, Montreal, Q.
(2) Gaunt, Reginald T., Westmount, Q.
Griffin, Frank Frederick, Winnipeg, Man.
Hall, Norman McLeod, Cornwall, Ont.
Hamel, Edouard, Quebec, Q.
Hargrave, William Howard, Medicine Hat, N.W.T.
Hay, Norman Kyle, Ottawa, Ont.
Hepburn, Maurice Gotch, Dunmore, Cullompton, England.
Holloway, Edward Stimson, Montreal, Q.
(2) Howe, John P., Pembroke, Ont.
(2) Jardine, Ian, Ranch, Manitou, Man.
Kenyon, Lot Amos, Rochelle, Q.
Kiely, Philip G., Toronto, Ont.
Kingston, Lawrence Bradley, Ottawa, Ont.
Lamb, Harry Melbourne, Montreal, Q.
(2) Lemoine, Louis, Montreal, Q.
(2) Lynch, Francis C. C., Carillon, Q.
Matthews, Allan Ramsay, Westmount, Q.
Maxwell, Lawrence G., St. Mary's Ont.
Millen, Walter H., Hull, Q.
Miller, Harry Belfrage, Montreal, Q.
Montgomery, Edgar G., New Richmond, Q.
Morrison, Albert Gower, Woodstock, Ont.
Morrow, Hugh Mervyn, Halifax, N.S.
Mulock, Redford Henry, Winnipeg, Man.
Mussell, Herbert Sparling, Westmount, Q.
Macaulay, Rupert M., Scotstown, Q.
McCuaig, Douglas Rykert, Montreal, Q.
Macdonald, Wm. M. B., Rammerscales, Lockerbie, Scotland.
MacKinnon, John Archibald, Finch, Ont.
Nelson, Ellis Leeds, Montreal, Q.
Paterson, Kenneth Birrell, St. John, N.B.
Patterson, Raymond Harvey, Melbourne, Australia.
Perry, Kenneth Meikle, Regina, Assa., N.W.T.
Porteous, Bartholomew H., Montreal, Q.
Pringle, Angus Furnival, Belleville, Ont.
Racey, Percy W., Lennoxville, Q.
Renaud, Bruce Gordon, Montreal, Q.
Scovil, Harry H., Hampton, N.B.
Shearer, George Wyman, Montreal, Q.
Spafford, Arthur Lucius, Lennoxville, Q.
Sproule, Gordon, St. Lambert, Q.
Stephen, John Aird, Ottawa, Ont.
Trimingham, James Harvey, Hamilton, Bermuda.

The figure (1), (2) or (3), prefixed to a name, indicates that the student takes a class in the corresponding year as well as in that where the name is found.

Werner, Sheldon William, Elmira, Ont.
Westland, Clarence, Wyoming, Ont.
Whitcomb, Frank Olin, Smith's Falls, Ont.
Williams, Frederick Harold, East Sherbrooke, Q.
Wilson, William Seath, Niagara Falls South, Ont.
Woodyatt, James B., Brantford, Ont.
Wright, George Roy, Salisbury, N.S.

CONDITIONED STUDENTS.

Archibald, Edward B., Halifax, N.S.
Beckwith, Albert Hickman, Amherst, N.S.
Blackett, Victor St. Clair, Glace Bay, N.S.
Broidy, Jacob Isaac, Springhill, N.S.
Curry, Eric Maurice, Amherst, N.S.
Estey, James Royden, Moncton, N.B.
Fetterly, Philip A., Aultsville, Ont.
Gamble, Clarke W., Victoria, B.C.
Gillis, Walter C., Metapedia, Q.
Graham, Wendell S., New Glasgow, N.S.
Halliday, Clifford, Buckingham, Q.
(2) Haskell, Ludlow St. J., Montreal, Q.
Haughton, Harold M., Kingston, Jamaica, B.W.I.
Jordan, Ernest H., Goderich, Ont.
Little, William D., Morden, Man.
Mather, William A., Rat Portage, Ont.
Martin, George Ernest, Moncton, N.B.
Morris, Richard V., Deptford, London S. E., England.
Moyse, John Jenkins, Montreal, Q.
Mulligan, William H., Chapleau, Ont.
McCallum, G. H., Smith's Falls, Ont.
McCuaig, Stuart, Montreal, Q.
MacKay, Ernest G., New Glasgow, N.S.
(2) MacKay, George Walker, New Glasgow, N.S.
(2) MacKay, Robert Moffatt, New Glasgow, N.S.
Otty, George Nugent, Hampton, N.B.
Phillips, Hobart William, Oskaloosa, Iowa, U.S.
(2) Prevost, Armand, Ottawa, Ont.
Richards, Edward Lorenzo, Port Antonio, Jamaica.
Riddell, Arthur G., Hamilton, Ont.
Robb, Fred. G., Montreal, Q.
Robinson, William Whitford, Montreal, Q.
Rogers, Henry George, Peterborough, Ont.
(2) Simard, Joseph W., Montreal, Q.
Strumbert, James Aubrey, Moncton, N.B.
(2) Wheaton, Isaac, Midgic, N.B.
Zimmerman, Herbert G., Hamilton, Ont.

PARTIAL STUDENTS.

Drolet, Gaudiose, Quebec, Q.
(3) Edwards, Cameron McP., Ottawa, Ont.
Gilmour, Hamilton L. Ottawa, Ont.
Grahame, Dallas Forrest, Montreal, Q.
Harrington, Bernard Gibb, Montreal, Q.
Letourneau, Marius, Montreal, Q.
(2) McLachlin, Hugh Champney, Arnprior, Ont.
O'Sullivan, Patrick, Indian Lorette, Q.
(2) Richards, William Allinson, Pembroke, Ont.

The figure (1), (2) or (3), prefixed to a name, indicates that the student takes a class in the corresponding year as well as in that where the name is found.

(2) Rolland, Robert, Montreal, Q.
Ross, Alan Hamilton, London, Eng.
Strachan, Kenneth Gordon, Montreal, Q.

SECOND YEAR.

UNDERGRADUATES.

Anderson, Frederick W., Ottawa, Ont.
(3) Barclay, Charles Hamilton, St. Paul, Minn., U.S.
Baylis, Harold A., Montreal, Q.
Beaubien, James DeGaspe, Outremont, Q.
Bell, George Edward, St. Thomas, Ont.
Benedict, Elmore McLellan, Mount Vernon, Ont.
Black, Douglas E., Montreal, Q.
Blackader, Gordon, Montreal, Q.
Boyd, Alfred Morley Stewart, Montreal, Q.
Brady, James Campbell, Victoria, B.C.
Brennan, George Eric, Ottawa, Ont.
Brown, William Godfrey Banks, Quebec, Q.
Brunner, Godfrey Hugh, Hayton, Liverpool, England.
Burnett, Archibald, Montreal, Q.
Cattanach, Frederick W. C., Newport, Vt., U.S.
Clawson, Ernest Edward, St. John, N.B.
Cole, Lionel Heber, Montreal, Q.
Conway, Edmund John, Ladysmith, B.C.
Corrigan, Thomas Lewis, Brockville, Ont.
Cowen, Reginald Percival, Dalston, Cumberland, England.
Cram, Alexander Scott, Smith's Falls, Ont.
Davidson, Thomas Reginald, Montreal, Q.
*Dickenson, John Goodall, New York, N.Y.
Dickson, Wallace, Montreal, Q.
Dougherty, John J., Sherbrooke, Q.
Durland, Royden Keith, Yarmouth, N.S.
(3) Eadie, George Herbert, Montreal, Q.
Ewens, William Sydney, Owen Sound, Ont.
Forbes, John McNeil, Bonavista, Nfld.
(3) Gillespie, W. Kenneth, St. Stephen, N.B.
Gillis, Hugh Bernard, Sydney, N.S.
Greenshields, John Gordon, Montreal, Q.
Grier, Arthur Harold, Montreal, Q.
Gurd, Andrew Douglas, Montreal, Q.
Hadley, Henry, Montreal, Q.
Harding, Winthrop K., Derby Line, Vt., U.S.
Harvie, James, Westmount, Q.
*Harvie, Robert, Westmount, Q.
Hibbard, M. L., Farnham, Q.
(3) Higgins, B. Howard, London, Ont.
Howell, Edgar N., Westmount, Q.
Jackson, Maunsell B., Toronto, Ont.
Jones, Andrew U., St. John, N.B.
(1) Killam, Lawrence, Yarmouth, N.S.
Kirkpatrick, Everett C., Montreal West, Q.
Lea, William Schurman, Victoria, P.E.I.
Leonard, Albert Prince, Westmount, Q.
Loudon, Andrew Charles, Ottawa, Ont.
Mudge, Reginald, Montreal, Q.
Macdonald, Robert Ross, Hamilton, Ont.
McCuaig, George Eric, Montreal, Q.

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* *Double Course.*

The figure (1), (2) or (3), prefixed to a name, indicates that the student takes a class in the corresponding year as well as in that where the name is found.

McDonald, Harold French, Fort Qu'Appelle, Assa., N.W.T.
McLachlan, D. W., Lochaber Bay Q.
McMeekin, Albert, Plattsville, Ont.
(1) McWilliam, Thomas Harrison, Ford's Mills, N.B.
Newton, Stephen Gibbon, Drummondville, Q.
Norton, Thomas J., Montreal, Q.
Pedley, Norman F., Montreal, Q.
Pickard, Herbert G., Exeter, Ont.
Piers, Edward O. T., Wolfville, N.S.
(3) Pinch, Harry Harstone, Owen Sound, Ont.
Presner, Joseph, Montreal, Q.
(1) Purdy, James DeLancy, Springhill, N.S.
Ralph, Claude E., Ottawa, Ont.
(3) Ritchie, Alan Bruce, Halifax, N.S.
Roger, Alec, Billing's Bridge, Ont.
Ross, Daniel, Montreal, Q.
Ryan, Fred. G., St. Lambert, Q.
Scott, William Gordon, Valleyfield, Q.
Sharp, Alphonso Lester, Summerside, P.E.I.
Shorey, Harold Edgar, Montreal, Q.
Skelton, Henry M., Rosemere, Q.
Slater, Nicholas J., Ottawa, Ont.
Slavin, Reginald Victor, Deseronto, Ont.
Taylor, Allan Harvey, Ottawa, Ont.
Tupper, Fred. McDonald, Truro, N.S.
Turley, Edward James, Frankford, Ont.
Walker, Cecil W., Kensington, P.E.I.
*Wickware, Francis G., Eastons Corners, Ont.
Winter, Elliott Edward, Georgetown, British Guiana.

PARTIAL STUDENTS.

Alford, Robert, Belleville, Ont.
Chambers, Sylvester G., Truro, N.S.
(3) Drewry, William S., Winnipeg, Man.
Papineau, Louis J., Jr., Montreal, Q.
(3) Worswick, Edgar Thomas, Guelph, Ont.

THIRD YEAR.

UNDERGRADUATES.

Archibald, Hiram Herman, Harbour Grace, Nfld.
Bain, James William, Montreal, Q.
Bedwell, Charles Francis, Columbus, Ohio.
Bowness, E. W., Kensington, P.E.I.
Boyle, Robert William, Carbonear, Nfld.
Blanchet, Guy Houghton, Ottawa, Ont.
Bray, Raymond P., Campbellton, N.B.
Burpee, Lockwood, Gibson, N.B.
Campbell, John A., Cheltenham, Ont.
Churchill, Cecil, Hantsport, N.S.
Cockshutt, Harvey W., Brantford, Ont.
Cropper, William C. McD., Kingstown, St. Vincent, B.W.I.
Cunha, Stanley, Kingston, Jamaica.
Dickson, George L., Truro, N.S.
Drinkwater, Kenneth E., Montreal, Q.
Eaton, E. Courtlandt, Montreal, Q.
Findlay, Delmer Clinton, Danville, Q.
Forbes, Harry Leo, Waverley, N.S.

The figure (1), (2) or (3), prefixed to a name indicates that the student takes a class in the corresponding year as well as in that where the name is found.

Fraser, Donald M., Montreal, Q.
Fullington, Moses A., Johnson, Vt., U.S.
Fyshe, Thomas Maxwell, Montreal, Q.
Gibbs, Harold Egerton, Port Arthur, Ont.
Gillies, George Ackland, Carleton Place, Ont.
Glassco, Gordon Bond, Hamilton, Ont.
Hamilton, Alfred McLean, Westmount, Q.
Hamilton, Wilfred, Montreal, Q.
Harris, Alan Dale, Ottawa, Ont.
Hogan, John, Westmount, Q.
Idsardi, Harold William, St. Thomas, Ont.
Jewett, Frederick Coburn, Sheffield Academy, N.B.
Johnstone, George Albert, Rednersville, Ont.
Joseph, A. Pinto, Quebec, Q.
Jost, E. Burton, Guysboro, N.S.
Kydd, George, Montreal, Q.
Leonard, E. Ibbotson, London, Ont.
Livingston, Douglas Clemont, Corfield, B.C.
Martin, Edward Newcome, York, Haldimand, Ont.
Miner, Rufus H., Cowansville, Q.
Moffat, Roland, Dalhousie, N.B.
Mooney, Chester A., Ausable Chasm, N.Y.
Mundy, Oswald A., Hamilton, Ont.
MacCarthy, Arthur Kempston, Ottawa, Ont.
MacDermot, Sidney Guy F., Gordon Town, Jamaica.
McIntosh, Robert F., Newcastle, Ont.
McLean, Donald, Campbellton, N.B.
McLeish, John, Montreal, Q.
McMillen, Harry H., Alberry Plains, P.E.I.
Piche, Ernest A., Montreal, Q.
Price, H. Lawrence, Montmorency, Q.
Redpath, William, Montreal, Q.
Robertson, Arthur Fredrick, Montreal,Q.
Ross, Walter Garfield, Port Perry, Ont.
Scouler, Gavin Theodore, New Westminster, B.C.
Sharpe, George P., Agassiz, B.C.
Sutherland, Charles H., New Glasgow, N.S.
Turnbull, Harvard, Montreal, Q.
Weagant, Roy Alexander, Derby Line, Vt., U.S.
Wheaton, H. Ashley, Petitcodiac, N.B.
Willard, Charles C., Morrisburg, Ont.
Wright, Clifton H., Barbadoes, B.W.I.

PARTIAL STUDENTS.

(4) Dickinson, S. C., Warham Road, Croydon, Surrey, England.
Porteous, James Conrad Everett.

FOURTH YEAR.

UNDERGRADUATES.

Atkinson, Marshall Brodie, Saratoga, Santa Clara Co., Cal.
Blanchard, Aubrey A., Charlottetown, P.E.I.
Blatch, Harry Ellis, St. Johns, Nfld.
Blumenthal, Samuel, Montreal, Q.
Cameron, John Alvin, Montreal, Q.
Campbell, Colin, Toronto, Ont.
Cardew, John Haydon, Rangoon, Burma.
Carlyle, Ernest J., Woodstock, Ont.

The figure (2), (3) or (4) prefixed to a name, indicates that the student takes a class in the corresponding year as well as in that where the name is found.

Chambers, Robert Allison, Truro, N.S.
Chaplin, Charles J., Westmount, Q.
Cole, G. Herbert, Detroit, Mich.
Davis, Patrick, Windsor, Ont.
Devlin, Cecil George, Mohawk, Ont.
Deyell, Harold John, Port Hope, Ont.
Drysdale, William F., Montreal, Q.
Dutcher, Howard K., Charlottetown, P.E.I.
Gnaedinger, Ernest G., Montreal, Q.
Greey, John W. G., Toronto, Ont.
Grice, James H., Bootle, Cumberland, England.
Haffner, Henry John Alex., Winnipeg, Man.
Harvey, John B., Lyndhurst, Ont.
Healy, Fred. E., Picton, Ont.
Jennings, Gordon T., Toronto, Ont.
Johnson, Fred. M.G., Montreal, Q.
Kemp, Robert Alexander, Seaforth, Ont.
Lambart, Howard F. J., New Edinburgh, Ottawa, Ont.
Lawrence, William Dawson, Maitland, N.S.
LeMaistre, F. J., Westmount, Q.
Lucas, Frederick T., Hamilton, Ont.
Marrotte, Louis H., Westmount, Q.
MacCloskey, F.W., Boiestown, N.B.
McDougall, George K., Montreal, Q.
McMurtry, Gordon O., Montreal, Q.
MacNaughton, William Gilbert, Huntingdon, Q.
McPhee, James McDonald, Loch Katrine, N.S.
Osler, Stratton Harry, Coburg, Ont.
Parlee, Norman W., Apohaqui, N.B.
Peaslee, Alex. S. L., Defiance, Ohio.
Richards, Charles C., Charlottetown, P.E.I.
Rodger, Herbert F., St. Johns, Nfld.
Roffey, Myles Herbert, Hornchurch, Essex, England.
Scott, George W., B.A., Montreal, Q.
(2) Spencer, Arthur Gordon, Truro, N.S.
Sullivan, Michael H., Ottawa, Ont.
Taylor, Reginald F., Westmount, Q.
Webster, George B., Montreal, Q.
Wenger, John Allan, Ayton, Ont.
Wilkes, Frederick C. D., Brantford, Ont.
Wilson, W. Douglas, Hamilton, Ont.
Wurtele, John S. H., Acton Vale, Ont.

PARTIAL STUDENT

Robinson, Harold Gotch, Sneyd Park, near Bristol, Eng.

GRADUATES.

Gale, George Gordon, B.Sc., Quebec, Q.
McKay, Frederick Alexander, B.Sc., Montreal, Q.

The figure (2) prefixed to a name indicates that the student takes a class in the corresponding year as well as in that where the name is found

COLLEGES ASSOCIATED IN ARTS.

Stanstead Wesleyan College.

FIRST YEAR.

UNDERGRADUATES.

Brooks, Murray G.
Brown, J. George.
Flanders, Sidney R.
Parker, David W.
Reid, Jane Elizabeth.

SECOND YEAR.

UNDERGRADUATES.

Call, Frank Oliver.
Cass, Frank O.
Edwards, William.
Flanders, Sidney R.
Phelps, Mary G.
Stanton, Mary Charlotte.
Stanton, R. Gertrude.

Vancouver College.

FIRST YEAR.

UNDERGRADUATES.

Anderson, Daniel James.
Cattell, Christopher.
Dickey, Alberta Florence.
Dixon, Leah Velma L.
Eldridge, Gardner Cornelius.
Flitton, Ralph Cyril.
Hindle, Lucy Emily.
Jackson, Frank Alexander.
Lawrence, Edith May.
Mackay, Hattie Alberta.
MacLachlan, Etta.
MacQueen, Bessie.
McPhalen, Mary Margaret.
Peck, Helen R.
Philip, Muriel.
Robson, Constance Hildred.
Van Sickle, Mabel Rachel.
Wade, Annie Laura.
Yates, Arthur.

PARTIAL STUDENTS.

Bridges, Sadie Ethel.
Ellis, Robert Walter.
Service, Robert William.

SECOND YEAR.

UNDERGRADUATES.

Langley, Celia Grace.
McQueen, Kate Hewitson.
McTaggart, Donald Edgar.
Smith, Arthur Neville.

SPECIAL STUDENTS.

De Beck, Edwin K.
Donaldson, William Arthur.

Victoria College.

FIRST YEAR.

UNDERGRADUATES.

Clearihue, Joseph Badenoch.
Mowat, Lilian Mitchell.
Pottinger, Kate.
Rogers, Clifford James.
Spencer, Nellie.
Wallaston, Mary Josephine.
Wood, Frederick G. C.

Summary.

Students in Law			43
" " Arts, McGill College:—			
Men—Graduates..		5	
Undergraduates		143	
Conditioned		12	
Partial..		34	
Women—Graduates..		1	
Undergraduates		73	
Partial		85	
Students in Arts, Stanstead College ..		12	
" " " Vancouver College		28	
" " " Victoria College		7	
			400
Students in Medicine			395
Students in Applied Science ..			
Graduates		2	
Undergraduates		262	
Conditioned		37	
Partial		21	
			322
			1160
Deduct repeated in different Faculties...			28
Total..			1132

The Museum from the Campus.

University and Graduates' Societies.

McGill Physical Society.

President—Prof. E. Rutherford.
Vice-President—Prof. J. Cox.
Rec. Secretary—Dr. H. T. Barnes.
Asst. Rec. Secretary—Dr. C. C. Schenck.
Executive Committee—Dr. J. Wallace Walker, Dr. A. Stansfield, Dr. Coker.

Undergraduates' Literary Society.

CONSTITUTED 1880.

Hon. President—Principal Peterson.
President—C. B. Adams, Arts '05.
1st Vice-President—H. Howitt, Arts, '05.
2nd Vice-President—R. Calder, Law, '06.
Secretary—W. L. Carr, Arts, '06.
Treasurer—C. Forbes, Sci., '06.
Reporters—W. Steedman, Arts, '07; J. Shearer, Arts, '06.
Committee—J. J. Ower, Arts, '05; T. M. Papineau, Arts, '04; S. C. Swift, Arts, '07; W. McMillan, Arts, '07; E. W. Sheldon, Arts, '04.

Delta Sigma Society.

ESTABLISHED 1884.

President—Frances Moule, '05.
Vice-President—Mabele Rorke, '06.
Secretary-Treasurer—Evelyn Coates, '07.
Reporter—Mary J. Eaton, '07.
Committee—Ella L. Smith, '05; Mabel G. Fraser, '06; Jennie Wisdom, '07.

McGill Historical Club.

(Officers, 1903.)

President—Talbot M. Papineau, Arts, '04.
Vice-President—Grant D. Campbell, Arts, '04.
Secretary—Gordon Brown, Arts, '04.
Treasurer—L. P. Edwards, Arts, '05.
Executive Committee—Prof. C. W. Colby, M.A., Ph.D.; W. J. Healy, Arts, '04; O. B. McCallum, Arts, '05.
Reporter—E. W. Sheldon, Arts, '04.

McGill Applied Science Society.

(Officers, 1902.)

Hon. President—Dr. H. T. Bovey.
President—H. P. Borden, Civ. Eng., '02.
Vice-Presidents—C. M. Campbell, Mining Engineering, '02; T. W. Hicks, Mechanical Engineering, '02; J. H. Edgar, Mech. Eng., '02.
Secretary—J. G. Ross, '03.
Treasurer—O. Hall, '03.
2nd Year Representatives—E. J. Carlyle, '04; G. O. McMurtry, B.A., '04; J. J. McNab, '05.
Reporters—C. Rowlands, '03; J. E. A. Egleson, '03; F. E. Sterns, '02; H. Biggar, '02.

The McGill Mining Society.

ORGANIZED 1891.

Hon. President—Dr. J. B. Harrington.
President—D. C. Livingston.
Vice-President—E. N. Martin.
Secretary-Treasurer—A. L. Sharp.
Sec. Year Rep.—H. D. McKinnon.

McGill University Chemical Society.

President—B. J. Harrington, M.A., LL.D.
Vice-President—Dr. J. W. Walker.
Secretary-Treasurer—N. N. Evans, M.Sc.
Executive Committee—B. J. Harrington, M.A., LL.D.; J. Wallace Walker, M.A., Ph.D.; H. T. Barnes, D.Sc.; N. N. Evans, M.Sc.; J. T. Halsey, M.D.

McGill Medical Society.

(Officers for Session 1903-1904.)

Hon. President.—Dr. F. W. Hamilton.
President—V. L. Miller, B.A.
Vice-President—J. Appleton Nutter, B.A.
Secretary—Alison Cumming, B.A.
Assist. Secretary—H. H. Christie.
Pathologist—L. L. Harrison, B.A.
Treasurer—F. J. Tees, B.A.
Reporter—A. C. Sellery.
Councillors—Dr. Shepherd, Dr. Mills, W. J. Patterson, B.A.

Young Men's Christian Association of McGill University.

OBJECT.—To promote the Christian character of its members and the cause of Christianity in the University.

MEMBERSHIP.—The active membership of the Association consists of graduates and students of the University who are members of some evangelical church. Any graduate and student of good moral character may become an associate member. A social reception is given to new students at the beginning of the session.

Full particulars regarding regular religious services and Bible Study Classes are given in the Hand Book of the Association.

Hon. President—Alex. Johnson, M.A., LL.D., D.C.L.
President—F. J. Tees, B.A., Med., '05.
1st Vice-President—T. A. Halpenny, Arts, '05.
2nd Vice-President—D. McLean, Sci., '05.
Rec. Secretary—H. M. Lamb, Sci., '07.
Treasurer—S. O. McMurtry, B.A., Med., '05.
Asst.-Treasurer—C. E. Brooks, Sci., '07.
Representative from Law—R. P. Wallace, '05.
Secretaries—George Irving, B.A.; C. A. Adams, B.A.

CHAIRMEN OF COMMITTEES.

Religious Meetings—G. K. MacNaughton, B.A., Med., '06.
Bible Study—D. S. Likely, B.A., Med., '05.
Social—H. M. Lamb, Sci., '07.
Reading Room—H. Newman, Arts, '06.
Missionary—W. L. Carr, Arts, '06.
Finance—S. O. McMurtry, B.A., Med., '05.
City Missions—John A. McDonald, B.A., Med., '05.
New Students—C. A. Adams, B.A.

Young Women's Christian Association.

ESTABLISHED 1887 (AS THEO DORA SOCIETY).

OBJECT.—The development of Christian character in the members, and the development of active Christian work, particularly among the young women of the University. Open for membership to students of the Royal Victoria College for Women.

President—Nora Bowman.
Vice-President—Rae Mowatt.
Rec. Secretary—Nora Trench.
Cor. Secretary—Muriel Gillean.
Treasurer—Jennie Wisdom.
Reporter—Birdena Clark.

McGill University Athletic Association.

ESTABLISHED 1884.

(Officers for Session 1903-1904.)

Hon. President—R. Tait MacKenzie, B.A., M.D.
Hon. Treasurer—Prof. C. H. McLeod, Ma.E.
President—G. M. Kent, Sci., '04.
Vice-President—W. P. Ogilvie, Law, '04.
Secretary—R. O. McMurtry, Arts, '05.
Treasurer—W. Stewart, Arts, '05.

Representatives:—Law—E. McDougall, '04; Arts—T. M. Papineau, '04; Medicine—R. N. W. Shillington, '04; Science—E. N. Martin, '04; Football—L. L. Reford, B.A., Med., '04; Cricket—Prof. C. E. Moyse; Skating and Hockey—S. H. Maclaren, Science, '03; Basketball—A. E. Foreman, Science, '03; Tennis—R. N. Hickson, B.A.

McGill University Football Club.

Hon. President—Prof. C. H. McLeod, Ma.E.
Hon. Treasurer—Dr. R. Tait MacKenzie.
President—E. N. Martin.
Vice-President—F. W. C. Mohr.
Secretary—E. M. Benedict.
Treasurer—H. L. Price.
Manager—T. M. Fyshe.
Captain—A. McL. Hamilton.

Committee—Arts— — Robinson, E. B. Savage; Medicine—J. F. Hammond, D. C. Malcolm; Science— — Richards, H. G. Zimmerman; Law—F. E. McKenna, C. G. Greenshields.

McGill University Association Football Club.

Hon. President—Prof. McLeod.
President—J. M. Forbes, Sci., '06.
Vice-President—J. H. McDermott, Med., '05.
Secretary—S. W. Werner, Sci., '07.
Treasurer—G. H. Brunner, Sci., '06.
Captain—R. W. Boyle, Sci., '05.
Vice-Captain—C. Willard, Sci., '05.

Committee—G. R. McCowen, Med., '07; W. M. Bell MacDonald, Sci., '07; J. E. Featherstone, Arts, '05.

McGill University Cricket Club.

Hon. Presidents—Lord Strathcona and Mount Royal.
Principal Peterson
President—C. E. Moyse, LL.D.
Vice-President—A. R. Oughtred, B.C.L.
Secretary-Treasurer—G. McDonald, B.A.
Assist. Secretary—J. J. Lomax.
Captain—W. C. Baber.
Captain Second Eleven—W. Robinson.
Committee—W. W. Walker, F. L. Gunter, C. S. B. Hayward, W. Cropper, W. Robinson.

McGill Lawn Tennis Club.

(Officers for Session 1903-1904.)

Hon. President—Mr. H. M. Jaquays.
President—J. D. G. McCallum.
Vice-President—T. M. Fyshe.
Secretary—G. C. McDonald.
Treasurer—W. Molson.
Committee:—Graduates—P. Molson.; Arts:—J. G. Dickenson; Science—G. M. Savage; Medicine—D. P. Hannington; Law—H. S. Williams.

McGill University Skating and Hockey Club.

President—Geo. C. McDonald.
Vice President—H. L. Sims.
Secretary—S. Dale Harris.
Treasurer—F. B. Gurd.
Manager—F. J. Tees.
Captain—C. A. Young.
Committee—Law—W. W. McDougall, C. G. Greenshields, F. E. McKenna.; Medicine—L. S. MacKid, C. F. Moffatt, E. A. Lindsay, G. F. Stephens; Science—E. G. Gnaedinger, K. E. Drinkwater, E. M. L. Benedict, H. L. Gilmour; Arts—W. Molson, W. Robinson, O. Waugh, E. S. McDougall.

McGill Basket Ball Club.

Hon. President—Dr. R. Tait McKenzie.
President—B. H. Higgins, '06.
Vice-President—W. D. Lawrence, '04.
Secretary-Treasurer—Daniel Ross, '06.
Manager—Chas. M. McKergow, '03.
Member of the Executive Committee:—E. Locke, '07.

R. V. C. Athletic Club.

Honorary President—Miss. C. Lichtenstein.
Honorary Vice-President—Mlle. M. L. Milhau.
President—Ruth Lyman.
Vice President—Birdene M. Clark.
Secretary-Treasurer—Rae Mowatt.
Captain of Basketball Club—Julia M. Hill.
Captain of Hockey Club—A. Muriel Gilleam.
Captain of the Tennis Club—Evelyn Sharp.

McGill Glee and Banjo Club.

Hon. Patrons—Chas. E. Moyse, LL.D. ; B. J. Harrington, LL.D.
Hon. President—H. T. Bovey, LL.D.
President—C. Waterman.
Vice President W. G. Brown.
Business Manager Geo. W. Mackay.
Secretary-Treasurer J. G. Hindley.
Instructor—O. Stewart Taylor.
Executive Committee—A. R. Robertson, Med. ; E. Rider, Arts ; H. Lamb, Sci.

Alumnæ Society of McGill University.

(Officers, 1903-1904.)

President—K. Campbell, B.A.
Vice-Presidents—S. E. Cameron, M.A. ; G. Hunter, B.A. ; Jane V. Palmer, B.A. ; Eleanor Tatley, B.A.
Treasurer—M. Watson, B.A.
Assist. Treasurer—J. Eva Warriner, B.A.
Rec. Secretary—Vivian E. Clogg, B.A.
Assist. Rec. Secretary—Annie W. Nolan, B.A.
Cor. Secretary—E. A. Hammond, M.A.
Assist. Cor. Secretary—E. Armstrong, B.A.

Ottawa Valley Graduates' Society of McGill University.

Organized 1890.

Hon. President—The Right Hon. Sir Wilfrid Laurier, P.C., K.C.M.G,, LL.D.
President—A. E. Barlow, M.A., D.Sc.
Vice-Presidents—J. Fenton Argue, M.D., Rev. N. A. McLeod, B.A., A. W. Harris, D.V.S.
Secretary—J. E. Craig, M.D.
Treasurer—A. S. McElroy, M.D.
Council—H. M. Ami. M.A., D.Sc.; R. J. Wicksteed, M.A., B.C.L., LL.D. ; J. B. Hollingsworth, D.V.S. ; W. B. Dawson, M.A., Ma.E., D.Sc. ; W. Gamble, B.A., B.C.L.

New York Graduates' Society of McGill University.

President—James A. Meek, M.D., C.M.
1st Vice-President—Hiram N. Vineberg, M.D., C.M.
2nd Vice-President—William Ferguson, M.D., C.M.
Treasurer—F. H. White, B.A.Sc.
Secretary—H. A. Coussirat, B. Sc., Eng. Dept., N.Y. Telephone Co., 15 Dey St., New York City.
Directors—Geo. H. Frost, C.E., Harcourt Bull, B.A., B.C.L., H. J. Schwartz, M.D., C.M.
Non-Resident Councillors—Wm. Osler, M.D., C.M., F.R.C.P., (Lond.), F.R.S. (Baltimore, Med.); Prof. The Rev. J. C. Bracq, M.A. (Vassar College, N.Y.); The Right Rev. J. D. Morrison, M.A., D.D., Bishop of Duluth ; R. T. Irvine, M.D., C.M., Ossining, N.Y. ; H. Holton Wood, B.A., Boston, Mass., Rev. Donald Guthrie, B.A., D.D. (Hampden, Sidney College, Virginia), Baltimore, Md.

New England Society of McGill Graduates.

President—Arthur E. Childs, M.Sc. (Boston, Mass.).
1st Vice-President—George A. Fagan, M.D. (North Adams, Mass.).
2nd Vice-President—Ambrose Choquet, B.C.L. (Central Falls, R.I.).
3rd Vice-President—H. Holton Wood, B.A. (Boston, Mass.).
Secretary-Treasurer—Joseph Williams, M.D. (Boston, Mass.; 45 Monument Square).
Councillors—T. G. McGannon, M.D. (Lowell, Mass.); Miles Martin, M.D. (Boston, Mass.); W. W. Goodwin, M.D. (East Boston, Mass.); R. T. Glendenning, M.D. (Manchester-by-the-Sea, Mass.); Joseph C. Pothier, M.D. (New Bedford, Mass.); J. G. Pfersick, D.V.S. (Shelburn Falls, Mass.).

McGill Graduates' Society of the District of Bedford.

ORGANIZED 1898.

(Officers, 1903-1904.)

Hon. President—Hon. W. W. Lynch, D.C.L. (Knowlton).
President—R. T. Macdonald, M.D. (Sutton).
Vice-Presidents—D. Stevens, M.D. (Missisquoi); M. N. Harris, M.D. (Brome); Charles McBurney, B.A. (Shefford).
Secretary-Treasurer—

The British Columbia Society of Graduates of McGill University.

President—D. H. Harrison, M.D. (Vancouver).
Vice-Presidents—G. H. Manchester, M.D. (New Westminster); J. M. McGregor, B.A., B.A.Sc. (Slocan City); A. R. Raymond, M.D. (Seattle, Wash.); Rosalind Watson, M.A. (Victoria); Walter Hunter, B.A., B.C.L. (Nanaimo); J. S. Gordon, B.A. (Vernon).
Secretary—W. J. McGuigan, M.D., LL.B. (Vancouver).
Treasurer—Simon J. Tunstall, B.A., M.D. (Vancouver).
Executive Committee—W. A. Bennett, M.D. (Vancouver); R. W. Suter, B.A., B.Sc. (Vancouver); J. B. Hart, D.V.S. (Vancouver); G. W. Boggs, M.D. (New Westminster); A. D. Taylor, B.A., B.C.L. (Vancouver); D. B. Holden, B.A., M.D. (Victoria).

McGill University Alumni Association of Chicago.

ORGANIZED 1900.

(Officers, 1903-1904.)

President—H. J. Burwash, M.D.
1st Vice-President—Chester B. Reid, B.A.Sc.
2nd Vice-President—John Ryan, M.D.
Secretary-Treasurer—Thomas A. Woodruff, M.D.
Councillors—Kenneth Moodie, B.A.Sc.; D. R. MacMartin, M.D.; J. Brown Loring, M.D.

McGill Graduates' Society of Toronto.

ORGANIZED 1896.

(Officers, 1902.)

President—A. R. Lewis, K.C.
1st Vice-President—Rev. Canon Sweeny, M.A., D.D.
2nd Vice-President—H. C. Burritt, M.D.
Secretary-Treasurer—R. B. Henderson, B.A., 48 King Street, West.
Committee—Hamilton Cassels, B.A.; Willis Chipman, B.A.Sc.; P E. Ritchie, B.A.

Maritime Graduates' Society of McGill University.

Hon. President—John McMillan, M.D. (Pictou, N.S.).
President—Alex. McNeil, M.D. (Kensington, P.E.I.).
Vice-Presidents—J. H. Scammell, M.D. (St. John, N.B.); Henry S. D. Johnson, M.D. (Charlottetown, P.E.I.); J. G. Macdougall, M.D. (Amherst, N.S.).
Secretary-Treasurer—F. A. Corbett, M.D. (Parrsboro, N.S.).
Executive Committee—Geo. Carruthers, M.D. (Charlottetown, P.E.I.); Jas. A. Johnson, M.D. (Emerald, P.E.I.); G. A. B. Addy, M.D. (St. John, N.B.); J. B. Travers, M.D. (St. John, N.B.); J. J. Doyle, M.D. (Halifax, N.S.); H. H. Mackay, M.D. (New Glasgow, N.S.).

Benefactors of McGill University, Montreal.

I. General Endowments and Subscriptions.

1. Original Endowment, 1811.

THE HONORABLE JAMES McGILL, who was born at Glasgow, 6th Oct., 1744, and died at Montreal, 19th Dec., 1813, by his last will and testament, under date 8th of January, 1811, devised the estate of Burnside, situated near the city of Montreal, and containing forty-seven acres of land, with the Manor House and Buildings thereon erected, and also bequeathed the sum of ten thousand pounds in money unto the "Royal Institution for the Advancement of Learning," a Corporation constituted in virtue of an Act of Parliament passed in the Forty-first Year of the Reign of His Majesty, King George the Third, to erect and establish a University or College, for the purpose of Education and the advancement of learning, in the Province of Lower Canada, with a competent number of professors and teachers to render such Establishment effectual and beneficial for the purposes intended; requiring that one of the colleges to be comprised in the said University should be named and perpetually be known and distinguished by the appellation of "McGill College."

The value of the above mentioned property was estimated at the date of the bequest at..... ....$120,000

2. University Buildings, Etc.

THE WILLIAM MOLSON HALL, being the west wing of McGill College Buildings, with the connecting Corridors and Class Rooms, was erected in 1861, through the munificent donation of the founder, whose name it bears.

THE PETER REDPATH MUSEUM, the gift of the donor whose name it bears, was announced by him as a donation to the University in 1880, and formally opened August, 1882.

Lots for University buildings adjoining the College grounds confronting on McTavish St., presented by J. H. R. Molson, Esq.,—$42,500.

THE UNIVERSITY LIBRARY BUILDING, the gift of Peter Redpath, Esq., announced by him as a gift to the University in 1891, and formally opened October 31st, 1893. Enlarged by Mrs. Peter Redpath in 1900.

UNIVERSITY OFFICES, Rooms in East Wing, remodelled and furnished for offices of Principal and Secretary and for a Board Room, by Sir Wm. C. Macdonald, in 1895.

3. Endowed Chairs, Etc.

THE JOHN FROTHINGHAM PRINCIPAL FUND, to be invested for the endowment of the Principalship of the University; founded in 1889 by the Rev. Frederick Frothingham and Mrs. J. H. R. Molson,—$40,000.

THE MACDONALD AUXILIARY FUND, founded in 1897 by Sir Wm. C. Macdonald, the interest to be used solely to maintain the income of certain of his endowments on a five per cent. per annum basis, —$378,750.

4. Endowments and Donations of Medals and Prizes.

1882, a Gold, a Silver and a Bronze Medal were given by R. J. Wicksteed, Esq., M.A., LL.D., for competition in "Physical Culture," by students in the Graduating Class and second year of any Faculty, who have attended the University Gymnasium. The Gold Medal was continued to 1889, and the Silver and Bronze have been continued to date.

Ottawa Valley Graduates' Society's Exhibition. For competition by candidates from the Ottawa Valley at the June matriculation examinations of any Faculty. Value, $50.00. Given annually, 1895 to date.

A Prize given by the British Columbia Society of Graduates of McGill University to be divided amongst the five Faculties. Annual value $50.00 Given annually, 1896 to 1898.

5. Subscriptions to General Endowment.

John Frothingham, Esq.	$2000	Forward	$19,200
John Torrance, Esq.	2000	Moses E. David, Esq.	600
James B. Greenshields, Esq.	1200	Wm. Carter, Esq.	600
Wm. Busby Lambe, Esq.	1200	Thomas Patton, Esq.	600
Sir George Simpson, Knight.	1000	Wm. Workman, Esq.	600
Henry Thomas, Esq.	1000	Hon. Luther H. Holton	600
John Redpath, Esq.	1000	Henry Lyman, Esq.	600
James McDougall, Esq.	1000	David Torrance, Esq.	600
James Torrance, Esq.	1000	Edwin Atwater, Esq.	600
Hon. James Ferrier	1000	Theodore Hart, Esq.	600
Harrison Stephens, Esq.	800	Wm. Forsyth Grant, Esq.	600
Henry Chapman, Esq.	600	Robert Campbell, Esq.	600
Hon. Peter McGill.	600	Alfred Savage, Esq.	600
John James Day, Esq.	600	James Ferrier, jun., Esq.	600
Thos. Brown Anderson, Esq.	600	Wm. Stephen, Esq.	600
Peter Redpath, Esq.	600	N. S. Whitney, Esq.	600
Thomas M. Taylor, Esq.	600	William Dow, Esq.	600
Joseph Mackay, Esq.	600	William Watson, Esq.	600
Donald Lorn McDougall, Esq.	600	Edward and Alicia Major	600
Hon. Sir John Rose	600	Hon. Sir A. T. Galt	360
Charles Alexander, Esq.	600	John R. Esdaile, Esq.	200
Forward	$19,200	Total	$30,560

1871.

John Frothingham, Esq.	$5150	Forward	$24,350
William Molson, Esq.	5000	T. W. Ritchie, Esq.	300
Sir William C. Macdonald.	5000	Messrs. Sinclair, Jack & Co.	250
Thomas Workman, Esq.	5000	John Reddy, M.D.	100
J. H. R. Molson, Esq.	2000	Wm. Lunn, Esq.	100
John McLennan, Esq.	1000	Hon. F. W. Torrance.	60
B. Gibb, Esq.	600	Wm. Rose, Esq.	50
Messrs. A. & W. Robertson.	600		
Forward	$24,350	Total	$25,210

1881-82.

Hugh McLennan, Esq.	$5000	Forward	$21,000
Hon. G. A. Drummond	4000	O. S. Wood, Esq.	1000
George Hague, Esq.	3000	J. B. Greenshields, Esq. (London)	1000
M. H. Gault, Esq.	2000	Warden King, Esq.	1000
Andrew Robertson, Esq.	1000	W. P. Cumming, Esq.	1000
Robertson Campbell, Esq.	1000	Mrs. Hew Ramsay	500
Sir Jos. and Lady Hickson.	1000	R. A. Ramsay, Esq.	500
Mrs. Andrew Dow.	1000	H. H. Wood, Esq.	500
Alexander Murray, Esq.	1000	James Burnett, Esq.	500
Miss Orkney.	1000	Charles Gibb, Esq.	500
Hector McKenzie, Esq.	1000	J. S. McLachlan, Esq.	200
Forward	$21,000	Total	$27,700

1883-84.

Edward Mackay, Esq. $5,000.

6. Endowment Fund for General Purposes.

1897.

Bequest of the late John H. R. Molson, Esq., $100,000.

7. Subscription for Improvements to College, 1856.

Hon. Charles Dewey Day .....$200.

8. Subscriptions for Current Expenses, 1881-82.

Principal Dawson						$1000
J. H. R. Molson	$1000	per annum,	5	years,	being	5000
Lord Mountstephen	1000	"		"	"	5000
Lord Strathcona and Mount Royal	1000	"		"	"	5000
David Morrice, Esq.	200	"		"	"	1000
Messrs. Gault Brothers & Co.	200	"		"	"	1000
Messrs. S. H. & A. S. Ewing	200	"		"	"	1000
Hon. Robert MacKay	300	"	2	"	"	600
Jonathan Hodgson, Esq.	100	"	5	"	"	500
Geo M. Kinghorn, Esq.	100	"	5	"	"	500
David J. Greenshields, Esq.						300
Thomas Craig, Esq.	100	"	2	"	"	200
John Rankin, Esq.						200
John Duncan, Esq.						200
George Brush, Esq., $25 for five years, being						125
Robert Benny, Esq.						100
Miss E. A. Ramsay						100
Hugh Paton, Esq., $50 for two years, being						100
J. M. Douglas, Esq.						50
James Court, Esq.						50
Total						$22,025

1887-88.

John H. R. Molson, Esq.	$1000	per annum,	3	years,	being	$3000
Sir Wm. C. Macdonald	1000	"		"	"	3000
Peter Redpath, Esq.	1000	"		"	"	3000
Lord Strathcona and Mount Royal	1000	"		"	"	3000
Hon. James Ferrier	500	"		"	"	1500
Sir Joseph Hickson	500	"		"	"	1500
Hugh McLennan, Esq.	250	"		"	"	750
E. B. Greenshields, Esq.	250	"		"	"	750
George Hague, Esq.	250	"		"	"	750
John Molson, Esq.	250	"		"	"	750
Samuel Finley, Esq.	250	"		"	"	750
Mrs. Mackay, $100 annually, 1889 to 1893						500
Total						$19,250

9. Subscription by Members of Board of Governors in

1898-99.—$191,000.

10. Subscriptions for a Building for the Carpenter Collection of Shells.

1868.

Peter Redpath, Esq. .. .. ..$	500	Forward .. ..$	1,600
William Molson, Esq...	500	Geo. H. Frothingham, Esq.	100
Harrison Stephens, Esq.. ..	100	Wm. Dow, Esq..	100
Robert J. Reekie, Esq.	100	Thomas Rimmer, Esq.	100
John H. R. Molson, Esq. ..	100	Andrew Robertson, Esq.. ..	100
Sir Wm. E. Logan, F.R.S...	100	Mrs. Redpath	100
John Molson, Esq...	100	Benaiah Gibb, Esq.	50
Thos. Workman, Esq., M.P.	100	Hon. John Rose..	50
Forward .. ..$	1,600	Total .. ..$	2,200

11. Subscriptions for the Erection of the Lodge and Gates.

William Molson, Esq.. .. ..$	100	Forward .. ..$	1,100
John H. R. Molson, Esq.. ..	100	John Frothingham, Esq.. ..	100
William Workman, Esq.. ..	100	James A. Mathewson, Esq..	100
Joseph Tiffin, jun., Esq... ..	100	Peter Redpath, Esq.	100
Thos. J. Claxton, Esq.	100	G. H. Frothingham, Esq. ..	100
James Linton, Esq.	100	G. D. Ferrier, Esq.	100
William McDougall, Esq. ..	100	John Smith, Esq.	100
Charles J. Brydges, Esq.. ..	100	Charles Alexander, Esq.. ..	100
Hon. George A. Drummond.	100	J. Evans, Esq.	100
Thomas Rimmer, Esq.	100	Henry Lyman, Esq.	50
William Dow, Esq.	100	Total .. ..$	1,950
Forward .. ..$	1,100		

12. Library and Museum.

Special Collections of Books Presented to the Library.

1. The Peter Redpath Collection of Historical Books, presented by Peter Redpath, Esq., of Montreal, 3,500 Volumes, with subsequent additions.
2. The Robson Collection of works in Archæology and General Literature, presented by Dr. John Robson, of Warrington, England, 3,436 Volumes.
3. The Charles Alexander Collection of Classical Works, presented by C. Alexander, Esq., of Montreal, 221 Volumes.
4. Frederick Griffin, Esq., Q.C., Collection of Books, being the whole of his Library, bequeathed by his will, 2,695 Volumes.
5. The Hon. Mr. Justice Mackay, Collection of Books, being the whole of his Library, 2,007 Volumes.
6. The "T. D. King Shakespeare Collection," presented by Lord Strathcona and Mount Royal and Sir Wm. C. Macdonald, of Montreal, being 214 Volumes.
7. The Ribbeck Library of Classical Literature, presented by Sir W. C. Macdonald, about 4,000 works.
8. The "Mendelssohn Choir Memorial Collection," presented by Joseph Gould, Esq., 200 Volumes.
9. The "John Horne" Collection of Canadian Portraits and Autographs, 177 in all.
10. The Sir J. W. Dawson Collection of works in Geology and Palæontology, presented by the Board of Governors.

Endowments for Library.

Wm. Molson, Esq., for Endowment of a Library Fund (1871)..$	4,000
Hon. F. W. Torrance for Endowment of Mental, Moral and Political Philosophy Book Fund (1876)	1,000
Mrs. Redpath, for the Endowment of the Wm. Wood Redpath Memorial Fund (1881)..	1,000

A Friend, by the Hon. F. W. Torrance, for Endowment of a Library Fund (1882)	$400
Hugh S. McLennan, Library Endowment, a gift from Estate late Hugh S. McLennan to the Library of McGill College, the income to be applied to binding (1892)	250
Total	$ 6,650

Subscriptions, Etc., to Library.

John Thorburn, for purchase of Books	$ 90
Andrew Drummond, do., for Applied Science	25
The Graduates in Arts and Applied Science of 1885 for purchase of Books	31
Ditto, ditto, of 1886	28
The late R. A. Ramsay, Esq., Bequest for purchase of books (1887)	1,000
Andrew Drummond, Esq., to Library Fund of Faculty of Applied Science	25
Lord Strathcona and Mount Royal, for purchase of books from the R. W. Boodle Library	200
Ottawa Valley Graduates' Society, for binding books in the University Library	25
Peter Redpath, Esq., in aid of the new catalogue of the Library (1892)	500
Mrs. Peter Redpath, for maintenance of Library, 1894 to date	50,500
Lord Strathcona and Mount Royal, donation for the purchase of books for the Library, particularly in the French Department (1897)	250
John H. R. Molson, donation for purchase of books for the Library (1897)	195
Hon. Treas. Redpath Memorial Fund, London, England. The balance remaining over of the above fund to be used for purchase of books for the Library	47
Estate late Hugh McLennan, for support of Travelling Libraries	1,500
Sir W. C. Macdonald, for purchase of books and for cataloguing (1902)	22,500
H. H. Wood, for the purchase of books	100
Total	$77.016

Special Collections Presented to the Museum.

1. The Holmes Herbarium, presented by the late Andrew F. Holmes, M.D.
2. The Carpenter Collection of Shells, presented by the late P. P. Carpenter, Ph.D.
3. The Collection of Casts of Ivory Carvings, issued by the Arundel Society, presented by Henry Chapman, Esq.
4. The McCulloch Collection of Birds and Mammals, collected by the late Dr. M. McCulloch, of Montreal, and presented by his heirs.
5. The Logan Memorial Collections of Specimens in Geology and Natural History, presented by the heirs of the late Sir W. E. Logan, LL.D., F.R.S.
6. The Dawson Collection in Geology and Palæontology, being the Private Collections of Principal Dawson, presented by him to the Museum.
7. The Bowles Collection of Lepidoptera, presented by Sir Wm. C. Macdonald and J. H. Burland, Esq.
8. R. Morton Middleton, Jr., London, Eng., Collection of Plants.
9. Collection of Butterflies, presented by the Members of the Board of Governors of the University.
10. Collection of Lepidoptera, presented by Sir W. C Macdonald, (See also "List of Donations to the Museum," printed in the Annual Reports of the University.)
11. The Read Collection of African Curios, presented by Lord Strathcona.

Endowment for the Museum.

Wm. Molson, Esq., for the Endowment of a Museum Fund (1873) .. ..$ 2,000

Subscriptions, Etc., for the Museum.

T. J. Claxton, Esq., for purchase of Specimens for Museum...$ 250
Peter Redpath, Esq., for Museum expenses, $1,000 per annum from 1882 to 1893 14,500
Mrs. Peter Redpath, for Museum expenses, 1894 to 1903.. 14,500
Mrs. H. G. Frothingham, for the arrangement of Dr. Carpenter's Collection of Mazatlan shells.. 233
Peter Redpath, Esq., for improvements to Museum (1891).. .. 1,000
A Lady, for Museum expenses from 1882 to 1894.. 7,000
A Friend, for the purchase of specimens for the Museum 4,300
John H. R. Molson, Esq., for the purchase of books on "Butterflies of Eastern United States and Canada."... 50
Lord Strathcona and Mount Royal, for mounting skin and skeleton of Musk Ox.. 150
Mrs. J. H. R. Molson, for the purchase of specimens 1,000

Total.. .. ..$40,483

13. Miscellaneous.

Chas. T. Blackman, Esq., of Montreal, the gift of a Telescope and Astronomical Instruments called after his name.
J. J. Arnton, bequest to McGill University (1895) .. ..$ 900
R. A. Ramsay, M.A., B.C.L., to defray the expenses of re-erecting the tomb of the late Hon. James McGill (1877).. .. 150
Sir Wm. C. Macdonald, contribution to cover cost of illustrating calendar, (1899) $586.66, (1900) $433.20, (1902) $391.54 (1903) $189.00 .. ..1,600.40
Sir Wm. C. Macdonald, for granolithic sidewalks (1902).. .. 2,800

14. University Portraits and Busts.

Portrait of the Founder, presented by the late Thomas Blackwood, Esq.
Portrait of William Molson, Esq., presented to the University.
Bust of William Molson, Esq., by Marshall Wood, presented by Graduates of the University.
Portrait of Peter Redpath, Esq., painted by Sydney Hodges, presented by Citizens of Montreal.
Portrait of Rev. Dr. Leach, by Wyatt Eaton, presented by Friends and Graduates of the University.
Portrait of Sir William Dawson, by Wyatt Eaton, presented by Friends and Graduates of the University.
Portrait of Hon. James Ferrier, by Robert Harris, presented by Friends and Graduates of the University.
Portrait of Peter McGill, presented (through Mr. A. T. Taylor), by Judge Parker, of Edinburgh.
Portrait of Dr. William Robertson, founder of the Medical Faculty, presented in loving remembrance by his family and descendants.
Bust of Peter Redpath, Esq., by Reynolds Stephens, presented by Mr. Redpath's personal friends in England.
Portrait of Peter Redpath, Esq., by Robert Harris, presented by Friends and Undergraduates of the University.
Portrait of Mrs. Peter Redpath, by Robert Harris, presented by the Governors of the University.
Portrait of John H. R. Molson, by Robert Harris, presented by the Governors of the University.
Portrait of Lord Strathcona and Mount Royal, by Alphonse Jongers, presented by the Governors of the University.
Portraits of Their Excellencies The Earl and Countess of Minto, presented by themselves.

II. Endowments and Subscriptions for the Faculty of Arts

1. Buildings, Chairs, Etc.

Endowment Fund, 1856.

John Gordon McKenzie, Esq... .. ..$2,000
Ira Gould, Esq... .. .. 2,300—Total, $4,300

THE MOLSON CHAIR OF ENGLISH LANGUAGE AND LITERATURE, in 1856, endowed by the Honorable John Molson, Thomas Molson, Esq., and William Molson, Esq.—$20,000; and supplemented in 1892 by John H. R. Molson, Esq., with a further sum of $20,000. Total, $40,000.

THE PETER REDPATH CHAIR OF PURE MATHEMATICS (founded as Chair of Natural Philosophy), in 1871, endowed by Peter Redpath, Esq., $20,000.

THE LOGAN CHAIR OF GEOLOGY, in 1871, endowed by Sir W. E. Logan, LL.D., F.R.S., and Hart Logan, Esq.—$20,000.

THE JOHN FROTHINGHAM CHAIR OF PHILOSOPHY, 1873, endowed by Miss Louisa Frothingham,—$20,000; and supplemented in 1891 with a further sum of $20,000. Total, $40,000.

THE MAJOR HIRAM MILLS CHAIR OF CLASSICS, in 1882, endowed by the last will of the late Major Hiram Mills, of Montreal,—$42,000.

THE DAVID J. GREENSHIELDS ASSOCIATE PROFESSORSHIP OF ENGLISH LITERATURE, endowed by the last will of the late David J. Greenshields, Esq., of Montreal, with the sum of $40,000.

THE MACDONALD CHAIRS OF PHYSICS, in the Faculties of Arts and Applied Science, endowed by Sir William C. Macdonald,—$120,000.

THE MACDONALD CHAIRS OF CHEMISTRY, in the Faculties of Arts and Applied Science, endowed by Sir William C. Macdonald, in 1897 and 1901,—$110,000.

THE MACDONALD CHAIR OF BOTANY, endowed by Sir William C. Macdonald, in 1901,—$50,000.

THE WILLIAM DOW CHAIR OF POLITICAL ECONOMY, 1901, endowed by the Misses Dow,—$60,000.

THE MACDONALD CHAIR OF MORAL PHILOSOPHY, endowed by Sir William C. Macdonald in 1903,—$50,000.

THE CHARLES GIBB BOTANICAL ENDOWMENT, subscriptions received to date:—

A Friend.. .. ..$8,000
Mrs. Catherine Hill.. .. .. 200—Total, $8,200

THE MACDONALD PHYSICS BUILDING AND EQUIPMENT, in the Faculties of Arts and Applied Science. The gift of Sir William C. Macdonald, announced by him as a gift to the University in 1890, and formally opened February, 1893.

THE MACDONALD PHYSICS BUILDING MAINTENANCE FUND in the Faculties of Arts and Applied Science, endowed by Sir William C. Macdonald, in 1892 and 1896, $150,000.

THE MACDONALD CHEMISTRY AND MINING BUILDING AND EQUIPMENT, given to the University by Sir William C. Macdonald, in 1896, $267,141.80.

THE MACDONALD CHEMISTRY AND MINING BUILDING MAINTENANCE FUND, endowed by Sir William C. Macdonald, in 1897 and 1899, $225,000.

THE MACDONALD CHEMISTRY ENDOWMENT FUND, endowed by Sir William C. Macdonald, in 1890, $135,000.

THE KINGSFORD CHAIR OF HISTORY, endowed by Sir Wm. C. Macdonald, in 1898, $50,000.

THE DAWSON CHAIR OF GEOLOGY, endowed by Sir Wm. C. Macdonald in 1899, $50,000.

THE MACDONALD BUILDINGS REPAIR FUND, endowed in 1900 by Sir William C. Macdonald, $15,000.

2. Endowment for Pension Fund.

This endowment was given in 1894 to be invested, and the revenue used exclusively for providing Pensions or Retiring Allowances for members of the teaching staff of the Faculties of Arts and Applied Science:

Lord Strathcona and Mount Royal.. ..$50,000
John H. R. Molson.. 50,000
Sir William C. Macdonald .. .. 50,000—Total, $150,000

3. Exhibitions and Scholarships, Etc.

THE JANE REDPATH EXHIBITION, in the Faculty of Arts,—founded in 1868, by Mrs. Redpath, of Terrace Bank, Montreal, and endowed with the sum of $1,667.

THE MACDONALD SCHOLARSHIPS AND EXHIBITONS, 10 in number, in the Faculty of Arts—founded in 1871, and endowed in 1882 with the sum of $25,000 by Sir William C. Macdonald.

THE CHARLES ALEXANDER SCHOLARSHIP, for Classics—founded in 1871 by Charles Alexander, Esq. Endowed in 1893 with the sum of $2,000.

THE BARBARA SCOTT SCHOLARSHIP FOR CLASSICAL LANGUAGE AND LITERATURE—founded in 1884 by the last will of the late Miss Barbara Scott, of Montreal, and endowed with the sum of $2,000.

THE GEORGE HAGUE EXHIBITION—founded in 1881—Annual value, $125. Terminated in 1901.

THE MAJOR HIRAM MILLS MEDAL AND SCHOLARSHIP.—founded by the will of the late Major Hiram Mills, of Montreal, and endowed with the sum of $1,500.

T. M. THOMPSON, ESQ.—$250 for two Exhibitions in September, 1871; $200 for two Exhibitions in 1872,—$450.

REV. COLIN C. STUART—for the "Stuart Prize in Hebrew"—$60.

THE TAYLOR SCHOLARSHIP—founded in 1871, by T. M. Taylor, Esq.—Annual value $100—terminated in 1878.

PROFESSOR ALEXANDER JOHNSON—for Scholarship for three Sessions, terminated 1886-87—$350.

HER MAJESTY'S COMMISSION for the Exhibition of 1851—Nomination Scholarships for 1891, 1893, 1895, 1897, 1899, 1901 and 1903—value £150 annually, tenable for two years.

THE PHILIP CARPENTER FELLOWSHIP—founded by Mrs. Philip Carpenter, for the Maintenance of a Post-Graduation Teaching Fellowship or Scholarship in Natural Science or some branch thereof in the Faculty of Arts in McGill College, endowed in 1892 with the sum of $7,000.

THE ALEXANDER MACKENZIE MEMORIAL FUND, founded by the friends of the late Hon. Alex. Mackenzie, for the maintenance of fellowships or scholarships in Political Science, $9,534.05.

A LADY, to provide for three tuitions in the Faculty of Arts for sessions 1892-93, 1893-94.

THE NEW YORK GRADUATES' SOCIETY EXHIBITION—for an Exhibition in the Faculty of Arts to be associated with the name of Sir William Dawson—Annual value, $60—given in 1897, 1898, 1901, 1903.

To provide Bursaries in the Faculty of Arts, subscriptions from

W. W. Ogilvie .. ..1898 and 1899....$2,000
Hugh McLennan.. ..1898 and 1899.... 240
D. Macmaster ... ..1898..... 120

4. Endowments and Donations of Medals and Prizes.

In 1856 Henry Chapman, Esq., founded a gold medal, to be named the "Henry Chapman Gold Medal," to be given annually in the graduating class in Arts. This medal was endowed by Mr. Chapman in 1874 with the sum of $700.

In 1860 the sum of £200, presented to the College by H.R.H. the Prince of Wales, was applied to the foundation of a Gold Medal, to be called the "Prince of Wales Gold Medal," which is given in the graduating class for Honour Studies in Mental and Moral Philosophy.

In 1864 the "Anne Molson Gold Medal" was founded and endowed by Mrs. John Molson, of Belmont Hall, Montreal, for an Honour Course in Mathematics and Physics.

In the same year the "Shakespeare Gold Medal," for an Honour Course, to comprise and include the works of Shakespeare and the Literature of England from his time to the time of Addison, both inclusive, and such other accessory subjects as the Corporation may from time to time appoint, was founded and endowed by citizens of Montreal, on occasion of the three hundredth anniversary of the birth of Shakespeare.

In the same year the "Logan Gold Medal" for an Honour Course in Geology and Natural Science was founded and endowed by Sir William Logan, L.LD., F.R.S., F.G.S., etc.

In 1874 a Gold and a Silver Medal were given by His Excellency the Earl of Dufferin, Governor-General of Canada, for competition in the Faculty of Arts, and continued till 1878.

In 1875 the "Neil Stuart prize in Hebrew" was endowed by Neil Stuart, Esq., of Vankleek Hill, in the sum of $340.

In 1880 a Gold and a Silver Medal were given by His Excellency the Marquis of Lorne, Governor-General of Canada, the former for competition in the Faculty of Arts, the latter for competition in the Faculty of Applied Science. Continued till 1883.

In 1884 a Gold and a Silver Medal were given by His Excellency the Marquis of Lansdowne, Governor-General of Canada, the former for competition in the Faculty of Arts, the latter for competition in the Faculty of Applied Science. Continued till 1888.

In 1889 a Gold and a Silver Medal were given by His Excellency Lord Stanley, Governor-General of Canada, the former for competition in the Faculty of Arts, the latter for competition in the Faculty of Applied Science. Continued till 1893.

THE "CHALES G. COSTER MEMORIAL PRIZE" for general proficiency —given annually by Colin H. Livingstone, Esq., B.A.; founded in 1889.

In 1894 a Gold and a Silver Medal were given by His Excellency the Earl of Aberdeen, Governor-General of Canada, the former for competition in the Faculty of Arts, the latter for competition in the Faculty of Applied Science. Continued till 1898.

In 1899 a Gold and a Silver Medal were given by His Excellency the Earl of Minto, Governor-General of Canada, the former for competition in the Faculty of Arts, the latter for competition in the Faculty of Applied Science. Continued to date.

5. Subscriptions for the Support of the Chair of Botany. 1883-84

Sir Wm. Dawson	$500	per annum,	5 years,	being..	$2500
Lord Strathcona and Mount Royal	250	"	"	"	1250
J. H. R. Molson, Esq.	100	"	"	"	500
Mrs. J. H. R. Molson	100	"	"	"	500
G. Hague, Esq.	100	"	"	"	500
Mrs. Redpath	100	"	"	"	500
Hugh McKay, Esq.	100	"	"	"	500
Robert Moat, Esq.	100	"	"	"	500
Sir Wm. C. Macdonald	100	"	"	"	500
Charles Gibb, Esq.	50	"	"	"	250
Miss Oakley	50	"	"	"	250
Robert Mackay, Esq.	50	"	"	"	250
Mrs. Wm. Molson	50	"	"	"	250
Mrs. John Molson	50	"	"	"	250
John Stirling, Esq.	50	"	"	"	250
Warden King, Esq.	50	"	"	"	250
Miss Hall	50	"	"	"	250

Robert Angus, Esq.	$50	per annum,	5	years, being	$250
D. A. P. Watt, Esq.	50	"	"	"	250
Hugh McLennan, Esq.	25	"	"	"	125
Sir Joseph Hickson	10	"	"	"	50
Mrs. Phillips					20
Total					$9,945

6. Botanic Garden, Etc.

Subscriptions, 1890-91.

Hugh McLennan, Esq.	$ 100	Forward	$ 900
Gilman Cheney, Esq.	100	Jonathan Hodgson, Esq.	100
James Johnston, Esq.	100	Robert Mackay, Esq.	100
James Slessor, Esq.	100	H. Shorey, Esq.	50
A Friend	100	J. S. Shearer, Esq.	50
Hugh Graham, Esq.	100	Geo. Sumner, Esq.	25
A. F. Gault, Esq.	100	A. Ramsay & Co.	25
W. T. Costigan, Esq.	100	Garth & Co.	25
Jonathan Brown, Esq.	100		
Forward	$ 900	Total	$1,275

To Erect Plant House in Botanic Garden.

Lord Strathcona and Mount Royal	$ 362.00
John H. R. Molson, Esq.	361.51
Sir William C. Macdonald	361.02
Total	$1,084.53

For Support of Botanical Laboratory.

Sir W. C. Macdonald (1900)	$ 300.00

7. Subscriptions in Aid of the Chair of Hebrew.

Warden King, Esq.	in 1889	$50	per annum,	3	years, being	$ 150
Sir William Dawson	"	50	"	"	"	150
Hon. Hugh Mackay	"	50	"	"	"	150
A. F. Gault, Esq.	"	25	"	"	"	75
George Hague, Esq.	"	25	"	"		75
T. A. Dawes, Esq.	"	25	"	"	"	75
S. Carsley, Esq.	"	25	"	"	"	75
S. Davis, Esq.	in 1892					20
Warden King, Esq.	"	50	per annum	for 3	years	150
A. F. Gault, Esq.	"	50	"	"		150
Robert Mackay, Esq.	"	50	"	"		150
Hugh McLennan, Esq.	"	25	"	"		75
George Hague, Esq.	"	25	"	"		75
T. A. Dawes, Esq.	"	25	"	"		75
S. Carsley, Esq.	"					25
J. Murphy, Esq.	"					25
Total						$1495

8. Subscriptions to Provide Sessional Lecturers, Etc.

Lord Strathcona and Mount Royal, sessions 1891-92 to 1898-99	$42,000
Mrs. John H. R. Molson, sessions 1891-92 to 1899-1900	8,300
Sir Wm. C. Macdonald, to provide for certain salaries in the Department of Physics, etc., sessions 1894-95 and 1895-96	2,627
Total	$52,927

9. Endowments for Apparatus

The Local Committee of the British Association for the Advancement of Science to found the British Association Apparatus Fund in the Faculties of Arts and Applied Science, in commemoration of the meeting of the Association in Montreal in 1884 .. .. ..

in a "College for Women," affiliated to the University, or in classes for the Higher Education of Women, approved by the University. The amount of the fund is at present $1,100.

The "Annie McIntosh Prize," contributed by pupils and friends of the late Miss Annie M. McIntosh, of Bute House, Montreal. The income to be given as a prize to women in the Faculty of Arts, $425.

IV. Endowments and Subscriptions for the Faculty of Applied Science.

I. Buildings, Chairs, Etc.

THE WILLIAM SCOTT CHAIR OF CIVIL ENGINEERING, in 1884, endowed by the last will of the late Miss Barbara Scott, of Montreal,—$30,000

THE THOMAS WORKMAN DEPARTMENT OF MECHANICAL ENGINEERING —founded in 1891 under the last will of the late Thomas Workman, Esq., who bequeathed the sum of $117,000—$60,000 for the maintenance of a Chair of Mechanical Engineering, with the assistance, shops, machinery and apparatus necessary thereto, $57,000 to be expended in provision of necessary buildings, machinery and apparatus.

SIR WILLIAM C. MACDONALD, in 1890, towards erection of Thomas Workman Workshops, $20,000.

THE MACDONALD ENGINEERING BUILDING AND EQUIPMENT—announced by Sir Wm. C. Macdonald as a gift to the University in 1890, and formally opened February, 1893.

THE MACDONALD PHYSICS BUILDING AND EQUIPMENT in the Faculties of Arts and Applied Science, the gift of Sir William C. Macdonald announced by him as a gift to the University in 1890, and formally opened February, 1893.

THE MACDONALD CHAIRS OF PHYSICS, in the Faculties of Arts and Applied Science, endowed by Sir William C. Macdonald—$120,000.

THE MACDONALD CHAIR OF ELECTRICAL ENGINEERING—endowed by Sir Wm. C. Macdonald, in 1891, with the sum of $40,000; in 1898, with the additional sum of $10,000. Total, $50,000.

THE MACDONALD ENGINEERING BUILDING MAINTENANCE FUND, endowed by Sir Wm. C. Macdonald, in 1892 and 1896.—$85,000.

THE MACDONALD PHYSICS BUILDING MAINTENANCE FUND in the Faculties of Arts and Applied Science, endowed by Sir Wm. C. Macdonald, in 1892 and 1896—$150,000.

THE MACDONALD CHEMISTRY AND MINING BUILDING AND EQUIPMENT, given to the University by Sir William C. Macdonald, in 1896.—$267,141.80.

THE MACDONALD CHEMISTRY AND MINING BUILDING MAINTENANCE FUND, endowed by Sir William C. Macdonald, in 1897 and 1899—$225,000.

THE MACDONALD CHAIR OF MINING ENGINEERING, endowed in 1896 and 1903 by Sir William C. Macdonald, with the sum of $62,500.

THE MACDONALD CHAIR OF ARCHITECTURE, endowed in 1896 by Sir William C. Macdonald, with the sum of $50,000.

THE MACDONALD CHAIRS OF CHEMISTRY, in the Faculties of Arts and Applied Science, endowed by Sir William C. Macdonald, with the sum of $110,000.

THE MACDONALD ARCHITECTURAL DEPARTMENT MAINTENANCE FUND, endowed by Sir William C. Macdonald, in 1898.—$10,000.

THE MACDONALD MINING AND METALLURGICAL DEPARTMENT ENDOWMENT FUND, endowed by Sir Wm. C. Macdonald, in 1899.—$55,000.

THE MACDONALD CHEMICAL DEPARTMENT ENDOWMENT FUND, endowed by Sir Wm. C. Macdonald, in 1900.—$135,000.

THE MACDONALD BUILDINGS REPAIR FUND, endowed in 1900 by Sir William C. Macdonald.—$15,000.

2. Endowment for Pension Fund.

This endowment was given in 1894 to be invested and the revenue used exclusively for providing Pensions or Retiring Allowances for members of the teaching staff of the Faculties of Arts and Applied Science.

Lord Strathcona and Mount Royal..$50,000
John H. R. Molson 50,000
Sir William C. Macdonald .. .. 50,000—Total, $150,000

3. Exhibitions and Scholarships.

THE SCOTT EXHIBITION.—Founded by the Caledonian Society of Montreal, in commemoration of the Centenary of Sir Walter Scott, and endowed in 1872 with the sum of $1,100, subscribed by members of the Society, and other citizens of Montreal. The Exhibition is given annually in the Faculty of Applied Science—Annual value, $50.

THE BURLAND SCHOLARSHIP, founded 1882 by J. H. Burland, B.A.Sc., $100 for a Scholarship in Applied Science for three years, being $300.

HER MAJESTY'S COMMISSION for the Exhibition of 1851—Nomination Scholarships for 1891, 1893, 1895, 1897, 1899, 1901 and 1903; value, £150 annually, each tenable for two years.

THE DR. T. STERRY HUNT SCHOLARSHIP.—Founded in 1894 by the will of the late Dr. T. Sterry Hunt, and endowed with the sum of $2,082, the income to be given and paid annually to a student or students of Chemistry.

THE CANADIAN GENERAL ELECTRIC CO. SCHOLARSHIPS, given in 1900-1903.—$1200.

To Provide Bursaries in the Faculty of Applied Science.

M. L. Hersey, Esq.	$ 50	F. Nicholls & Son	100
F. P. Mathewson, Esq.. ..	100	A. Kingman.	50
D. Morrice, Esq.	50	A. E. Childs..	100
Hanson Bros.	50	G. A. Grier	50
Jas. Morgan, Esq.	50		

4. Medals and Prizes.

In 1880 a Gold and a Silver Medal were given by His Excellency the Marquis of Lorne, Governor-General of Canada, the former for competition in the Faculty of Arts, the latter for competition in the Faculty of Applied Science. Continued till 1883.

In 1884 a Gold and a Silver Medal were given by His Excellency the Marquis of Lansdowne, Governor-General of Canada, the former for competition in the Faculty of Arts, the latter for competition in the Faculty of Applied Science. Continued till 1888.

In 1885 the British Association Gold Medal, for competition in the Graduating class in the Faculty of Applied Science, was founded by subscription of members of the British Association for the Advancement of Science, and by gift of the Council of the Association, in commemoration of its meeting in Montreal in the year 1884.

In 1889 a Gold and a Silver Medal were given by His Excellency Lord Stanley, Governor-General of Canada, the former for competition in the Faculty of Arts, the latter for competition in the Faculty of Applied Science. Continued till 1893.

In 1894 a Gold and a Silver Medal were given by His Excellency the Earl of Aberdeen, Governor-General of Canada, the former for competition in the Faculty of Arts, the latter for competition in the Faculty of Applied Science. Continued till 1898.

In 1899 a Gold and a Silver Medal were given by His Excellency the Earl of Minto, Governor-General of Canada, the former for competition in the Faculty of Arts, the latter for competition in the Faculty of Applied Science. Continued to date.

5. Endowment and Subscriptions for Maintenance of Faculty.

Endowment Fund.		Graduates' Endowment Fund.	
Daniel Torrance, Esq.	$5,000	Graduates' Endowment Fund—	
Charles J. Brydges, Esq.	1,000	Class 1890, $70 a year for 5 years, $350; received to date	$85
R. J. Reekie, Esq.	100		
Total	$6,100		

Annual Subscriptions, 1871-1879.

Hon. James Ferrier ($100 per annum for 10 years)	$ 1,000
Peter Redpath, Esq. ($400 per annum for 10 years)	4,000
John H. R. Molson, Esq. ($400 per annum for 10 years)	4,000
George H. Frothingham, Esq. ($400 per annum for 7 years)	2,800
T. James Claxton, Esq. ($100 per annum for 6 years)	600
Donald Ross, Esq. ($50 per annum for 5 years)	250
Miss Mary Frothingham ($400 per annum for 3 years)	1,200
H. McLennan, Esq. ($100 per annum for 5 years)	500
A. F. Gault, Esq. ($100 per annum for 5 years)	500
Gilbert Scott, Esq. ($100 for 2 years)	200
Joseph Hickson, Esq. ($100 for 2 years)	200
Sir William Dawson, ($300 for 2 years)	600
His Excellency the Marquis of Lorne	500
Mrs. Redpath (Terrace Bank)	100
Total	$16,450

Subscriptions towards Maintenance of Engineering Department.

Sir Wm. C. Macdonald,	sessions 1891-92 to 1897-98	$56,341
do	for advertising	675
do	to cover certain salaries, session 1894-95 and 1897-98	1,920
do	to meet the expenses of the course of summer work for Mining Engineering Students (1898)	825
do	Electric Light Re-installation in Engineering Building, 1899	6,000
do	to cover salary of Assistant in Chemical Department, session 1898-99 and session 1899-1900	1,000
do	Electric Storage Batteries, Reinstallation of Electric Lighting in Physics Building, etc., 1901	30,000
A Friend,	towards maintenance of Electrical Engineering Department, 1901 and 1902	800
Total		$97,561

Subscriptions to Provide Lectures in Mechanical and Sanitary Engineering.

E. B. Greenshields, Esq.	$ 50	Forward	$161
J. E. Bovey, Esq	50	Jeffrey H. Burland, B.A.Sc., $100 for 2 years	200
Professor H. T. Bovey	61	Smaller amounts	40
Forward	$161	Total	$401

Subscriptions for Maintenance of Chair of Practical Chemistry, 1862.

Hon. C. Dunkin, M.P.	$1,200
Sir William Dawson	1,200
Peter Redpath, Esq.	226
Total	$2,626

For Maintenance of Chair of Mining Engineering and Metallurgy, 1891.

R. B. Angus, Esq.	$2,000	
Mrs. Dow	1,000	
Hugh McLennan, Esq.	1,000	
Miss Benny	1,000	
T. A. Dawes, Esq.	750	
A. A. Ayer, Esq.	250	
G. W. Reid, Esq.	100	
Evans Bros.	100	
	$ 6,200	
Payable in Three Years.		
Sir W. Dawson	1,000	
Alex. Stuart, Esq. (London, Eng.)	1,500	
R. G. Reid, Esq.	1,500	
Forward	$4,000	$6,200
Forward	$4,000	$6,200
E. K. Greene, Esq.	750	
Dr. T. Brainerd.	750	
A. F. Gault, Esq.	750	
Messrs. H. & A. Allan	750	
Hector Mackenzie, Esq.	750	
Peter Lyall Esq.	750	
James Ross, Esq.	600	
A. Robertson, Esq.	300	
John Duncan, Esq.	300	
George Hague, Esq.	300	
Jonathan Hodgson, Esq.	300	
James Moore, Esq.	200	
Messrs. Ames & Holden	150	
James Cooper, Esq.	150	
	10,800	
Total		$17,000

Remodelling East Wing for Class Rooms for Faculty of Applied Science, 1888.

John H. R. Molson, Esq.	$3,000
Sir Wm. C. Macdonald	3,000
Total	$6,000

6. Endowments for Apparatus.

The Local Committee of the British Association for the Advancement of Science, to found the British Association Apparatus Fund in the Faculties of Arts and Applied Science, in commemoration of the meeting of the Association in Montreal in 1884	$1,500

7. Subscriptions, etc., for Apparatus.

A lady, for the purchase of Mining Models	$1,000
Thos. McDougall, Esq., for the same	25
J. Livesey, Esq., through Dr. Harrington, for the same	50
Geo. Stephen, Esq., for the same	50
Chas. Gibb, Esq., donation for Apparatus in Applied Science	50
The Local Committee for the reception (1881) of American Society of Civil Engineers for the purchase of Appliances for the department of Civil Engineering in Faculty of Applied Science	475
Capt. Adams, Chemical Apparatus	10
J. H. Burland, B.A.Sc., Chemical Apparatus	25
Sir Wm. C. Macdonald—	
For Surveying and Geodetic Apparatus in 1890	1,500
For new apparatus, etc., in the Mechanical Department, 1900.	5,000
Total	$8,185

8. List of Subscribers and Donors to the Equipment of the New Engineering Buildings of McGill University to May, 1903.

Abbott W..... .....Equipment
Adams, Capt. R. C..... Mining Photographs
American Locomotive Co..... Drawings
American Bridge Co...Drawings
American Steam Gauge Co. (Boston) ..... Indicator
Archbald, H. .....Books
Ashton Valve Co. (Boston)..... Sectional Valve
Aurora Metal Co.....Specimens
Bell Telephone Co..... Telephone Apparatus
Bertram & Sons, J. (Dundas).... 24 in. Planer
Bethlehem Iron Co....Specimens
Birch & Co., J. (England)..... Hydraulic Tubes
Birks, Henry ..... Clock
Bishop, George .....Equipment
Blackwell, Kennet ...Equipment
Blake Mnfg. Co., The George F. Blue Prints of Pump
Blake Pump Co., The Geo. (New York & Boston).....Pump
Bluenose Mining Co.....Ore
Bremner, A. $50
Brockhaus, Herr F. A.....Books
Brodie & Harvey.....$50
Brunner, Mond & Co.....Ore
Brush, G. .....Boiler
Cameron, General...Rotary Drill
Campbell Tile Co. (England), per Jordan & Locker..... Equipment
Campbell, Kenneth $50
Canada Switch Co.....Castings
Canadian General Electric Co. (Toronto), per F. Nicholls..... Equipment
Canada General Electric Co..... Electric Drill, Edison Generator, Dynamo, Motor
Canada Rand Drill Co..... Rock Drill
Carnegie Steel Co.....Specimens
Carsley, S. $100
Carus-Wilson, Prof. C. A..... Equipment
Cary, A. A..... Photographs of Boilers
Chadwick, F.....Truss Models
Chanteloup, E. $50
Claxton, T. J...Timber Beams of large Scantling for Testing Laboratory
Costigan, J. .....Equipment
Cowen, Amos..Samples of Bricks
Cowper, P. H..... Model of Steam Engine
Craig, Messrs. J. & M. (Kilmarnock, Scotland)—Sanitary Sections (full size) and models
Crocker-Wheeler Electric Motor Co., The (New York)....Motor Armature, Prints
Crosby Steam Gauge and Valve Co., The (Boston)..Gauge and Valve, Indicator and Valves
Cumberland Ry. & Coal Co..Ore
Darling, Brown & Sharpe (Providence, R.I.).....6 in. Rule
Date, John .....Equipment
Dawson, W. B..... Books and Specimens
Dolworth Mining Co...5 tons ore
Dominion Coal Co..Miners' Tools
Dominion Wire Manfg. Co., per F. Fairman .....Shaper
Douglas, James .....Ore
Drummond, Hon. G. A.....Prism
Drummond G. E.....Ore
Drysdale, D. .....Tools
Drysdale, W. .....Tools
Earle, S. R.....Air Injector
Edison General Electric Co..... Two 450 light dynamos, Brake Shoe and Disc
Egleston, Dr. (New York)..... Framed Photographs of the Moon, Books, Photos, etc.
Electric Welding Company (Boston) ..... Equipment
"Engineering Magazine" (New York City) Mining Illustrations and Photographs
Eureka Tempered Copper Co.... Equipment
Eustis Mining Co.....12 tons ore
Ewan, A. $100
Felton & Guilleaume..... Samples of Cable Wire, etc.
Forsyth, R. .....Equipment
Frothingham & Workman..Tools
Furlong, G. W., B.A.Sc..... Specimens of Pine and Wood bored by Teredos
Gardner, & Son, R. W..... 16 in. Lathe
Gardner, R. .....Equipment
Garth & Co.....$500
Garth, Henry .....Equipment
Girdlestone, J. .....Plans

Government of New South Wales Collection of Australian Timbers
Government of Queensland, Australia..Collection of Queensland Timbers
Gower, W. E.....
Graham, H. $100
Grier, G. A. .....Equipment
Guggenheim Smelting Co..... Specimens
Gurney & Co., E. & C.....$604
Hadfield, Messrs. (Sheffield)..... Equipment
Hamilton Bridge Works Co..... A Model of the Stoney Creek Arch
Hamilton Powder Co., Electrical Blasting Machine, and Appliances, etc., for blasting.
Hearn & Harrison, per L. Harrison.....Barometer & Clock
Hersey, R. $1200
Hodgson, Jonathan $200
Holden, A. .....Equipment
Hosoki, Dr., of Tokio, Japan..... Collection of Japanese Wood
Hoyt Metal Co.....Specimens
Hughes & Stephenson.Equipment
Hutton, W. H.....Equipment
Illinois Steel Co.....Photos, etc.
Ingersoll Rock Drill Co..... Rock Drill
Irwin & Hopper.....Equipment
Ives. H. R. .....Cupola
Joyce, Alfred $50
Jordan & Locker.....Equipment
Kennedy, John .....Equipment
Kennedy, W. & Sons..... American Turbine
Kennedy, W. (Owen Sound)..... Pump
Kerr, R. & W.....Tools
King & Son, Warden.....$534
Laughlin-Hough Drawing Table Co. .....Drawing Tables
Lachine Rapids Co..... Electrical apparatus and power
Laurie & Bro., J..... Compound Engine
Lawson, A. J. .....Equipment
Lehigh Zinc & Iron Co..Franklin Furnace, N.J., Mining Specimens and Photographs.
Lindsay & Co., C. F..Equipment
Lovell & Son, John.....Books
Lyster, A. G.....Drawings and Sketches of London and Liverpool Docks.
McPherson, A. .....Tools
Mason, Dr. .....Equipment
Maxwell & Co., E. J..Equipment
McCarthy, D. & J. (Sorel)....$300
McDougall, Mrs. J.....$4000
McLachlin Bros. (Arnprior)..... Timber
McLaren, D. $100
McLaughlin Bros. .....Timber
McNally & Co., W.....$100
McPherson Sand Box Co. (Troy, N. Y.).....Model of Sand Box
Midvale Steel Co.....Specimens
Miller Bros. & Sons.....Elevator
Mitchell, P.....Equipment ($300)
Mitchell & Co., R.....Equipment
Naismith, P. L., B.A.Sc..... Specimens
Nalder Bros. & Co. (England)... Standard Cell
National Electric Mfg. Co....100 Volt Transformer, Transformers
National Lead Co.....Specimens
Nicholson, Peter $100
Norton A. O., Boston, Mass..Two Norton Ball-bearing Lifting-Jacks.
Norton Emery Wheel Co. (Worcester, U.S.) .....Equipment
Notman, Wm. .....Photographs
Ohio Brass Co.....Fittings
Ogilvie W. $500
Ontario Graphite Co..... Graphite Rock
Packard Elec. Co..Transformers
Palmer, A. .....Equipment
Parker, M. .....Equipment
Paton, H. .....Equipment
Peckham Motor Truck and Wheel Co. (Kingston, N.Y.).... Model of Motor Truck
Pelton Water Wheel Co. (New York) .....Two Motors
Pennsylvania Railroad Co..... Working Drawings of Locomotives (32)
Perrin & Co., W. R..... Press and force pump
Phelps Engine Co., per A. R. Williams & Co....Dake Steam Engine, 4 Horse Power Engine
Pillow, J. A.....$250
Pittsburgh Reduction Co..... Specimens
Pratt & Whitney (Hartford Conn.)..Epicycloidal Gear Model
Prowse, G. R.....Equipment
Queensland Government, per Sir Thos. McIlwraith..Collection of Timbers.
Radiator Co. (Toronto).....$500
Ramsay & Son, A.....$100
Rathbun, E. W.....Samples of Fire-proof Construction ($112)
Reddaway & Co., F..... Belt (value $50)

Redpath, F. R.....Equipment
Redpath, Mrs. $100
Reed, G. W.....$100
Reford, R. $1000
Reid, R. .....Equipment
Reid, R. G. $1000
Renouf, E. M.....Books
Rhode Island Locomotive Works
Photos of Locomotives
Rife's Hydraulic Engine Mfg. Co. (Roanoke, Va., U.S.A.).....
Hydraulic Ram
Robb & Armstrong.....
80 H.P. High Speed Engine
Robertson, J. .....Equipment
Rogers, Professor (Waterville, Maine) ..... Equipment
Ross, Jas. $500
Rodden, W. .....Equipment
Royal Electric Co.....Motors, Dynamos, Transformers, Coils, Condensers
Rutherford, W. .....Equipment
Sadler, G. (Robin & Sadler).....
Belting ($400)
Seeley, John .....Insulators
Schaeffer & Budenbery (Brooklyn, N.Y.)....Double Indicator
Scholes, F. $100
Scovill Mfg. Co.....Equipment
Sharp, Stewart & Co. (Manchester, Eng.) .....Equipment
Shearer, James $200
Sheppard, Chas. $200
Siemens Bros. (London, Eng.)...
Cable Samples
Smith C. B. .....
Framed Photos of Bridges (2)
Smith, R. .....Equipment
Spence, J. P., C.E..Specifications and drawings, showing construction of Sault Ste. Marie Canal Locks.
Smith, R. Guilford.....Books
Stanley Elect. Co.....Wattmeter
Steel Co, of Scotland, The.....
Samples of Cable Wire, etc.
St. George, P. W.....Models
Stirling Co., The..Sectional Blue Prints of Boilers
Sturtevant Co., The B. P. (Boston) ..... Blowers
Swan Lamp Mfg. Co.....Lamps
Taylor, A. T.....$300
Tees & Co.....Equipment
Thomas, R. & Son.....Insulators
Thomson-Houston Co. (Boston).
Incandescent Dynamos
Twyford & Co .....Equipment
U. S. Navy Const. Dept.....
Drawings, etc.
Vail, Stephen.....Piece of first Telegraph Wire Used
Walker & Co., James.....Tools
Wanklyn, F. L.....Equipment
Ward, Hon. J. K.....$50
Warrington Wire Co.....
Cable Samples
Waterous Engine Co.....
Drawings, etc.
Westinghouse Air Brake Co.....
Drawings, etc.
Weston Elect. Instr. Co.....
Ammeters, etc.
Wetherill Separating Co.....
Ore Samples
Whittier Machine Co. (Boston)..
Electric Elevator
Wiley & Sons, John (New York)
Books
Yale & Towne Mfg. Co. (Stamford, Conn.) .....Equipment
Yates & Thom.....
Blue Prints of Machinery

The above representing a total of about $80,000.

9. Faculty of Applied Science Library Endowment, 1893.

Hugh Paton..	$ 25	Forward..	$600
A. Joyce..	25	W. Rodden	25
R. Gardner..	50	M. Parker	25
H. Garth..	100	Robin & Sadler..	50
Hughes & Stephenson..	100	J. Robertson, Esq..	50
R. Mitchell..	300	Mrs. John McDougall (1895)..	20
Forward..	$600	Total..	$770

V. Endowments and Subscriptions in Aid of the Faculty of Medicine.

1. Leanchoil Endowment, 1884.

Lord Strathcona and Mount Royal.. .. ..$50,000

2. Campbell Memorial Endowment, 1848.

Established to commemorate the service rendered to the Faculty during 40 years by the late Dean, George W. Campbell, M.D., LL.D.

Mrs. G. W. Campbell. .. ..$	2000
H. A. Allan, Esq.	1500
Lord Strathcona and Mount Royal..	1500
Lord Mount Stephen..	1000
R. B. Angus, Esq...	1000
Hon. Geo. A. Drummond ..	1000
Alex. Murray, Esq.	1000
Robert Moat, Esq.	1000
Sir W. C. Macdonald..	1000
A Friend..	1000
Duncan McIntyre, Esq.. ..	1000
A. F. Gault, Esq..	1000
M. H. Gault, Esq.	1000
G. W. Stephens, Esq..	1000
James Benning, Esq..	1000
R. P. Howard, M.D.	1000
G. B. & J. H. Burland, Esqs.	1000
Miss Elizabeth C. Benny ..	1000
J. C. Wilson, Esq..	1000
Mrs. John Redpath	1000
Hon. John Hamilton..	1000
Miss Orkney	1000
Hugh Mackay, Esq.	1000
Hector Mackenzie, Esq.. ..	1000
Thomas Workman, Esq. ..	1000
Hugh McLennan, Esq... ..	1000
O. S. Wood, Esq.	1000
Frank Buller, M.D.	500
James Burnett, Esq...	500
Andrew Robertson, Esq.. ..	500
Robert Mackay, Esq.	500
John Hope, Esq.	500
Alex. Urquhart, Esq..	500
R. A. Smith, Esq...	500
George Hague, Esq..	500
J. K. Ward, Esq.	500
Warden King, Esq.	500
John Stirling, Esq.	500
John Rankin, Esq.	500
Robert Reford, Esq...	500
Messrs. Cantlie, Ewan & Co.	500
Messrs. J. & W. Ogilvie ..	500
Randolph Hersey, Esq.. ..	500
John A. Pillow, Esq..	500
S. Carsley, Esq.	500
D. C. MacCallum, M.D... ..	500
Messrs. S. Greenshields, Son & Co..	500
Forward .. ..$	39,000

Forward .. ..$	39,000
Jonathan Hodgson, Esq. ..	500
George Ross, M.D.	500
T. G. Roddick, M.D.	500
Wm. Gardner, M.D.	500
Messrs. Cochrane, Cassils & Co.	500
Sir Joseph Hickson	500
Allan Gilmour, Esq., Ottawa	500
R. W. Shepherd, Esq.	500
G. E. Fenwick, M.D...	300
Miles Williams, Esq.	300
G. P. Girdwood, M.D.	250
Charles F. Smithers, Esq..	250
John Kerry, Esq...	250
A. Baumgarten, Esq..	250
R. W. Elmenhorst, Esq.. ..	250
W. F. Lewis, Esq.	250
George Armstrong, Esq. ..	250
J. M. Douglas, Esq...	250
Messrs. H. Lyman, Sons & Co.	250
F. J. Shepherd, M.D...	250
Duncan McEachran, Esq., F.R.C.V.S...	200
Benj. Dawson, Esq.	200
R. Wolff, Esq.	150
James Stewart, M.D..	150
A. T. Paterson, Esq...	100
H. W. Thornton, M.D. (New Richmond, Q.)	100
C. B. Harvey, M.D. (Yale, B.C.)..	100
D. Cluness, M.D. (Nanaimo, B.C.)..	100
W. Kinlock, Esq.	100
Hua, Richardson & Co.. ..	100
Mrs. Cuthbert (New Richmond, Q.)	100
J. M. Drake, M.D.	100
Hugh Paton, Esq..	100
R. T. Godfrey, M.D...	100
T. A. Rodger, M.D.	100
W. A. Dyer, Esq..	100
Geo. W. Wood, M.D. (Faribault, Minn.)..	100
A. A. Browne, M.D.	100
Geo. Wilkins, M.D.	100
R. L. MacDonnell, M.D. ..	100
Forward .. ..$	48,400

Forward	$48,400
Jos. Workman, M.D. (Toronto)	50
Henry Lunam, B.A., M.D. (Campbellton, N.B.)	50
Hon. Sir A. T. Galt	50
R. J. Alloway, M.D.	30
R. J. B. Howard, M.D.	25
Louis T. Marceau, M.D. (Napierville, Q.)	25
Griffith Evans, M.D. (Vet. Dept. Army)	26
J. J. Farley, M.D. (Belleville)	25
Henry R. Gray, Esq.	25
J. E. Brouse, M.D. (Prescott)	20
R. N. Rinfret (Quebec)	20
Robert Howard, M.D. (St. Johns)	20
Drs. J. & D. McIntosh Vankleek Hill)	20
J. H. McBean, M.D.	15
J. C. Rattray, M.D. (Cobden, O.)	10
E. H. Howard, M.D. (Lachine)	10
Forward	$48,821

Forward	$48,821
J. W. Oliver, M.D. (Clifton, O.)	10
D. A. McDougall, M.D. (Ottawa, O.)	10
A. Poussette, M.D. (Sarnia, O.)	10
A. Ruttan, M.D. (Napanee, O.)	10
James Gunn, M.D. (Dunham, O.)	10
J. McDiarmid, M.D. (Hensall, O.)	5
W. J. Derby, M.D. (Rockland, O.)	5
J. Gillies, M.D. (Teeswater, O.)	5
J. B. Benson, M.D. (Chatham, N.B.)	5
L. A. Fortier, M.D. (St. David, Q.)	5
J. A. McArthur, M.D. (Fort Elgin, O.)	5
John Campbell, M.D. (Seaforth, Ont.)	5
Total	$48,906

3. Endowed Chairs, Donations, Etc.

LORD STRATHCONA AND MOUNT ROYAL CHAIR OF PATHOLOGY, endowed in 1893 by Lord Strathcona and Mount Royal with the sum of $50,000

LORD STRATHCONA AND MOUNT ROYAL ENDOWMENT FOR THE DEPARTMENT OF HYGIENE, endowed in 1893 by Lord Strathcona and Mount Royal with a sum of 50,000

MRS. MARY DOW BEQUEST—Bequest by the will of the late Mrs. Mary Dow for the Faculty of Medicine, 1893, $10,000 less Government Tax of 10 per cent..... 9,000

JOHN H. R. MOLSON DONATION—In 1893, $25,000 for the purchase of land, and $35,000 for additional building and equipment. 60,000

WALTER DRAKE, ESQ., for benefit of Chair of Physiology, an annual donation of $500 given 1891 to 1897..... 3,500

DR. ROBERT CRAIK FUND—

Mrs. John McDougall, toward formation of above (1893-94)		$1,000
Jane F. Learmont, bequest,	do. do. (1894)	3,000
		4,000

JOSEPH MORLEY DRAKE CHAIR OF PHYSIOLOGY, endowed in 1898 by Walter Drake, Esq., with the sum of 25,000

LADY STRATHCONA AND MOUNT ROYAL Donation for erection and equipment Additional Buildings (1899) 50,000

HON. MRS. HOWARD Donation for erection and equipment Additional Buildings (1899) 50,000

D. MORRICE, ESQ., Donation for equipment of Pharmacology Laboratories 1,500

3. Medals and Scholarships.

In 1865 the "Holmes Gold Medal" was founded by the Faculty of Medicine as a memorial of the late Andrew Holmes, Esq., M.D., LL.D., late Dean of the Faculty of Medicine, to be given to the best student in the graduating class in Medicine, who should undergo a special examination in all the branches whether Primary or Final.

In 1878 the "Sutherland Gold Medal" was founded by Mrs. Sutherland of Montreal, in memory of her late husband, Prof. William Sutherland, M.D., for competition in the classes of Theoretical and Practical Chemistry in the Faculty of Medicine, together with creditable standing in the Primary Examinations.

THE DAVID MORRICE SCHOLARSHIP—in the subject of Institutes of Medicine, in the Faculty of Medicine—founded in 1881—value $100. (Terminated in 1883.)

5. Library, Museum and Apparatus.

For the Fittings of the Library and Museum of the Faculty of Medicine, 1872.

G. W. Campbell, A.M., M.D.	$1200	Forward	$2,000
W. E. Scott, M. D.	200	Robert Craik, M.D.	200
Wm. Wright, M.D.	200	Geo. E. Fenwick, M.D.	200
Robert P. Howard, M.D.	200	Joseph M. Drake, M.D.	200
Duncan C. MacCallum, M.D.	200	George Ross, M.A., M.D.	50
Forward	$2,000	Total	$2,650

The Professors and Lecturers in the Summer Sessions of the Faculty of Medicine ..... } Donation to Apparatus, Museum Library, etc., of the Medical Faculty, 1887, $1,182; 1888, $1,023. } $2,205

For Physiological Laboratory of Faculty of Medicine, 1879.

Dr. Campbell	$ 100	Forward	$700
Dr. Howard	100	Dr. Ross	50
Dr. Craik	100	Dr. Roddick	50
Dr. MacCallum	100	Dr. Buller	50
Dr. Drake	100	Dr. Gardner	50
Dr. Godfrey	100	Dr. Osler	50
Dr. McEachran, F.R.C.V.S.	100		
Forward	$ 700	Total	$950

Cameron Obstetric Collections.

Dr. J. C. Cameron $10,000

6. Miscellaneous.

Anonymous Donor toward Expenses of Pathology for Session 1892-93 ..... $500

Contributors Towards Salary of Research Fellow in the Department of Pathology, 1900.

James Ross, Esq.	$2,500
R. B. Angus, Esq.	2,500
Total	$5,000

VI. Endowments and Subscriptions for the Faculty of Law.

1. Endowed Chairs, Etc.

THE GALE CHAIR, in the Faculty of Law, endowed in 1884 by the late Mrs. Andrew Stuart (*née* Agnes Logan Gale), of Montreal, in memory of her father, the late Hon. Mr. Justice Gale,—$25,000.

THE MACDONALD FACULTY OF LAW ENDOWMENT, founded by Sir Wm. C. Macdonald, in 1890—$150,000. Supplemented in 1897 by $50,000. Total $200,000.

SIR WM. C. MACDONALD, remodelling part of the East Wing in 1895 for Class Rooms, Lecture Rooms, etc., for Law Faculty.

SIR WM. C. MACDONALD, Travelling Scholarships in Law, 1901—$3,600; 1902,—$1,800. 1903,—$2,000.

2. Medals.

In 1865 the "Elizabeth Torrance Gold Medal," was founded and endowed by John Torrance, Esq., of St. Antoine Hall, Montreal, in memory of the late Mrs. John Torrance, for the best student in the graduating class in Law, and more especially for the highest proficiency in Roman Law.

VII. Graduates' Funds.

1. The Fund for the Endowment of the Library.

The Graduates' Society of the University, in 1876, passed the following Resolution :—

Resolved :—"That the members and graduates be invited to subscribe to a fund for the endowment of the Libraries of the University; said fund to be invested and the proceeds applied under the supervision of the Council of the Society in annual additions to the Libraries; an equitable division of said proceeds to be made by the Council between the University Library and those of the Professional Faculties."

In terms thereof subscriptions have been paid in to the Graduates' Society, amounting in all to $3,120; the interest on which is annually expended in the purchase of books for the several libraries, under the direction of a special committee appointed for that purpose.

2. The Dawson Fellowship Foundation.

The Graduates' Society of the University, in 1880, and in commemoration of the completion by Dr. Dawson of his twenty-fifth year as Principal, resolved to raise, with the assistance of their friends, a fund towards the Endowment of the Fellowship under the above name.

Details of the scheme can be had from the Treasurer, Francis Topp, B.A., B.C.L. The following subscriptions have been announced to date, Jan. 1st, 1902. They are payable in one sum, in instalments, without interest or with interest till payment of capital as subscribers have elected.

Alphabetically arranged.

Abbott, H., B.C.L.	$ 60
Archibald, H., B.A.Sc.	20
Bethune, M. B., M.A., B.C.L.	50
Carter, C. B., B.C.L.	100
Cruikshank, W. G., B.C.L.	100
Dawson, W. B., M.A., Ma.E.	50
Dougall, J. R., M.A.	250
Gibb, C., B.A.	100
Hall, Rev. Wm., M.A.	100
Hall, J. S., jun., B.A., B.C.L.	100
Harrington, B. J., B.A., Ph.D.	50
Hutchinson, M., B.C.L.	400
Kirby, J., LL.D., D.C.L.	50
Krans, Rev. E. H., M.A., LL.D.	100
Leet, S. P., B.C.L.	100
Lighthall, W. D., M.A., B.C.L.	100
Forward	$1,730
Lyman, H. H., M.A.	100
Lyman, A. C., M.A., B.C.L.	50
McCormick, D., B.C.L.	100
McGibbon, R. D., B.A., B.C.L.	100
McGoun, A., jun., M.A., B.C.L.	50
McLennan, J. S., B.A.	100
Ramsay, R. A., M.A., B.C.L.	50
Spencer, J. W. B.A.Sc., Ph.D.	50
Stephen, C. H., B.C.L.	100
Stewart, D. A., B.A.Sc.	20
Stewart, J., M.D.	60
Tait, M. M., B.C.L.	100
Taylor, A. D., B.A., B.C.L.	100
Trenholme, N. W., M.A., D.C.L.	40
Total to date	$3,110

McGill University

SESSION 1903-1904

DEGREE AND SESSIONAL EXAMINATIONS

LISTS OF STANDING, HONOURS AND PRIZES

McGill University

DEGREE AND SESSIONAL EXAMINATIONS. 1903-1904.

Faculty of Law.

THIRD YEAR (GRADUATING CLASS.)

HONOURS.

(In order of merit. Students of equal standing are bracketed together.)

Dickson, Norval, B.A.—First Rank Honours, Elizabeth Torrance Gold Medal, and Prize of $50.00.
Williams, H. S., B.A.—First Rank Honours and Prize of $50.00.
McDougall, W. W. M. E.—First Rank Honours and Prize of $15.00.
Cotton, W. V., B.A.—First Rank Honours and Prize of $15.00.
Brodie, H. H., B.A.—Second Rank Honours.

PASSED FOR THE DEGREE OF B.C.L.

(In Order of Merit.)

Dickson, Norval, B.A.
Williams, H. S., B.A.
McDougall, W. W. M. E.
Cotton, W. V., B.A.
Brodie, H. H., B.A.
Drouin, J., B.A. } Equal.
Phelan, M. A., B.A. } Equal.
Ogilvie, W. P.
Vineburg, A. H., B.A.
Staveley, W. R.
Ker, T. R.
Chipman, W. F., B.A.
DeWitt, J., B.A.
Mackie, H. A., P.A.

STANDING IN THE SEVERAL SUBJECTS.

AGENCY, PARTNERSHIP AND CORPORATIONS.

Dickson; Williams; McDougall and Brodie, equal; Phelan; Cotton and Ker, equal; Ogilvie; Chipman; Vineberg; Drouin; DeWitt; Staveley; Mackie.

COMMERCIAL LAW.

Dickson; McDougall; Cotton; Brodie; Williams; Staveley; Drouin; Vineberg and Phelan and Chipman, equal; DeWitt; Ogilvie; Ker; Mackie.

CONSTITUTIONAL LAW.

Dickson; Cotton; Williams; Brodie; McDougall; Phelan; Vineberg; Ogilvie and Mackie, equal; Staveley and DeWitt, equal; Drouin; Chipman; Ker.

CRIMINAL LAW.

Dickson; Williams; McDougall; Drouin and Staveley, equal; Cotton; Brodie; Ker; Phelan; Ogilvie; Chipman; DeWitt; Vineberg; Mackie.

INTERNATIONAL LAW.

Brodie; Williams and Cotton, equal; Dickson; Drouin; Ker and Staveley, equal; McDougall; Phelan; Ogilvie; Chipman; Vineberg; DeWitt and Mackie, equal.

MARRIAGE COVENANTS, PRESCRIPTION, ETC.

Dickson; Williams; Drouin; McDougall; Phelan; Brodie; Vineberg; Stevens; Staveley; Ogilvie; Chipman; Cotton; Ker; Mackie; DeWitt.

OBLIGATIONS.

Dickson; Cotton; Williams; McDougall; Drouin; Ogilvie and DeWitt, equal; Ker; Phelan and Brodie and Mackie, equal; Vineberg; Staveley; Chipman.

PROCEDURE.

Dickson; Williams; Brodie and McDougall and Vineberg, equal; Cotton; Phelan; Ker and Mackie, equal; Chipman and Ogilvie, equal; Drouin; DeWitt; Staveley.

REAL PROPERTY LAW.

Dickson; Cotton; Williams; McDougall; Phelan; Brodie; Vineberg; Drouin; Staveley; Ogilvie; Ker; Chipman; DeWitt; Mackie.

ROMAN LAW.

Dickson; Cotton; McDougall; Drouin; Williams and Phelan, equal; DeWitt; Brodie; Mackie and Vineberg and Ogilvie, equal; Staveley; Chipman; Ker.

SUCCESSIONS, GIFTS, SUBSTITUTIONS.

Dickson; Williams; Cotton and Phelan, equal; McDougall; Ogilvie; Brodie; Drouin; Vineberg; Chipman; Ker; DeWitt; Staveley; Mackie.

SECOND YEAR

HONOURS.

Harris, S. Dale, B.A.—First Rank General Standing and Prize of $25.00.
Morin, L.S.R., B.A.—First Rank General Standing and Prize of $25.00.

PASSED SESSIONAL EXAMINATIONS.

(In order of merit.)

Harris, Morin, Wallace, Robertson, Duffy, Mathieu, Greenshields (*Ægrotat*).

STANDING IN THE SEVERAL SUBJECTS.

CIVIL PROCEDURE.

Morin, Harris; Duffy and Mathieu, equal; Wallace, Robertson.

COMMERCIAL LAW.

Harris, Wallace, Morin, Robertson, Mathieu, Duffy.

AGENCY AND PARTNERSHIP.

Morin, Harris, Wallace, Duffy, Mathieu, Robertson.

CRIMINAL LAW.

Harris, Morin, and Robertson, equal; Duffy, Wallace and Mathieu.

INTERNATIONAL LAW.

Morin, Harris, Wallace, Duffy, Robertson, Mathieu.

MARRIAGE COVENANTS.

Greenshields, Morin, Harris, Robertson, Wallace, Mathieu, Duffy.

REAL PROPERTY LAW.

Harris, Morin, Robertson, Wallace, Duffy, Mathieu.

GIFTS AND SUBSTITUTIONS.

Greenshields, Morin and Harris, equal; Robertson, Mathieu, Duffy, and Wallace, equal.

FIRST YEAR.

HONOURS.

Shallow, T. J., B.A.—First Rank General Standing, and Scholarship of $100 and First Prize in Roman Law.

Couture, G. C. P., B.A.—First Rank General Standing, Scholarship of $100 and Second Prize in Roman Law.

PASSED THE SESSIONAL EXAMINATION.

(In order of merit).

Shallow, T. G., B.A.; Couture, G. C. P., B.A.; Johnson, W. S., B.A.; Calder, R. L., B.A.; Sperber, M. M.; Stackhouse, R. T.; Richards, J. A. T.; McKenna, F. E., B.A., (*Ægrotat*).

STANDING IN THE SEVERAL SUBJECTS.

(Subjects alphabetically arranged).

CIVIL PROCEDURE.

Couture, Shallow, Calder, Johnson, Stackhouse, Richards, Sperber.

CONSTITUTIONAL LAW.

Couture, Shallow, Calder, Johnson, Sperber, Wickware, Stackhouse Richards.

LEGAL HISTORY.

Johnson, Calder, Shallow, Couture, Sperber, Richards, Stackhouse.

OBLIGATIONS.

Shallow and Couture, equal; Calder, Johnson, Sperber, Stackhouse, Richards.

PERSONS.

Shallow, Johnson, Couture, and Calder, equal; Sperber, Stackhouse, Richards.

REAL RIGHTS.

Couture, Shallow, Johnson, Calder, Sperber, Stackhouse, Richards.

ROMAN LAW.

Shallow, Couture, Johnson, Stackhouse, Calder, Richards and Sperber, equal.

Faculty of Arts.

PASSED FOR THE DEGREE OF B.A.

IN HONOURS.

(In Alphabetical Order.)

FIRST RANK. —Archibald, John G.
Brooks, Elizabeth A.
Brown, William G.
Campbell, D. Grant.
Freeze, Helen L.
Gardner, Helen I.
Griffin, Grace L.
Hart, Ethel M.
Hindley, J. G.
Lathe, Frank E.
MacKenzie, A. D. M.
MacKenzie, Catherine.
MacLeod, Annie.
Rose, H. J.
Shanks, George.
Sheldon, Ernest W.
Simpson, Edith P.

SECOND RANK.—Dickson, Ada D.
Hadrill, M. F.
McCally, Mary K.
McGougan, E.
Rubinowitz, I. I.

ORDINARY B.A.

(In order of merit. Students of equal standing are bracketed together.)

CLASS I.—Healy, W. J.
[McDonald, George C.
[MacFarlane, C. McK .

CLASS II.—Henry, Alice O. E.
[Draper, Madolin A.
[Papineau, Talbot M.
Stewart, Lilian J.
[Ellison, Ada A.
[Wilson, Alice Muriel.
Mowatt, Edward.
Marshall, W. W.

Bouchard, Myra MacL.
Logan, David.
Mingie, George W.
Walker, James H. E.

CLASS III.—Robertson, Ethel C.
Craig, Bessie.
Bell, Ruth.
Molson, Walter.

ÆGROTAT.

Stewart, J. Ure.

DOUBLE COURSE IN ARTS AND APPLIED SCIENCE.

Wickware, F. G.

B.A. AD EUNDEM.

Morgan, Cleveland, B. A. (Cantab.)

DOUBLE COURSE STUDENTS IN ARTS AND MEDICINE WHO WILL BE QUALIFIED TO OBTAIN THE DEGREE OF B.A. IN JUNE, 1904, ON COMPLETING THEIR MEDICAL YEAR.

Chandler A. B.
Fripp, G. D.
Gray, E. H.
Gurd, Fraser B.
Lomer, Theo. A.

DOUBLE COURSE STUDENTS IN ARTS AND MEDICINE WHO WILL BE QUALIFIED TO OBTAIN THE DEGREE OF B.SC. IN JUNE, 1904, ON COMPLETING THEIR MEDICAL YEAR.

McDiarmid, J. S.

BACHELORS OF ARTS PROCEEDING TO THE DEGREE OF M.A. IN COURSE.

Lomer, Gerhard R.
Mitchell, Sydney.
Morgan, Cleveland.

M.A. AD EUNDEM.

Shaw, James C., M.A. (Harvard).

BACHELOR OF ARTS PROCEEDING TO THE DEGREE OF M.SC. IN COURSE.

Lundie, Helen.

MASTER OF SCIENCE PROCEEDING TO THE DEGREE OF D.SC. IN COURSE.

Penhallow, D. P.

ADMITTED TO THE DEGREE OF LL.D., HONORIS CAUSA.

Jusserand, His Excellency Jean Adrien Antoine Jules.
Lynch, Hon. Justice William Warren.
Rexford, Rev. E. I., M.A.
Weston, Edward.

PASSED THE INTERMEDIATE EXAMINATION.

(1).—FOR COURSE LEADING TO B.A.

(In order of merit. Students of equal standing are bracketed together.)

CLASS I.—Shaw, H. T.
Naylor, R. K.

CLASS II.—Kirsch, S.
McLeod, A. R.
Holway, R.
Rorke, M. L.
Douglas, A. L.
McCallum, J. S.
[Gibb, R. W.
[Vineberg, S.
Cousins, G. V.
Freedman, A.
[Barclay, G.
[Drew, J. Mc. O.

CLASS III.—Clark, B. M.
Smith, A. N.‡
Phelps, M. G.†
[Carr, Wm.
[Rogers, D. B.
Langley, C.‡
Flanders, J. A.†
Payne, C. H.
Fraser, M.
Clipperton, W. H.
Lyman, C. S.
Eckhardt, J.
Scott, C. H.
Mundie, G. S.
Mowatt, E. L. R.
Braidwood, H. *(s)*
Call.† *(s)*
Crocker, S. J. *(s)*
Edwards.† *(s)*
Fraser, A. *(s)*
Henry, R. A. C. *(s)*
Housser, Geo. E. *(s)*
McTaggart, D.‡ *(s)*
Newman, A. *(s)*
Peterson, W. *(s)*
Ryan, E. *(s)*
Shearer. *(s)*

(Qualified by passing Special Examination in Greek.)
Bridgette, S. J.

COURSE LEADING TO B.SC.

CLASS I.—Lewis, D. S.

FOURTH YEAR (GRADUATING CLASS.)

HONOURS.

In Chemistry.

MacLeod, Annie L.—First Rank Honours and the T. Sterry Hunt Scholarship.
Brown, W. Gordon.—First Rank Honours.
Lathe, Frank E.—First Rank Honours.
Freeze, Helen L.—First Rank Honours.

‡ *Vancouver College.*
† *Stanstead College.*
(s) Supplemental in one subject.

In Classics.

Archibald, John G. | Equal. — First Rank Honours and Chapman Rose, Herbert J Gold Medal.
Brooks, Elizabeth.—First Rank Honours.

In English Language and Literature.

Hart, E. Muriel.—First Rank Honours and Shakspere Gold Medal.
Gardner, Helen I. L.—First Rank Honours.
Dickson, Ada D.—Second Rank Honours.

In Geology and Mineralogy.

Shanks, George.—First Rank Honours.

In History and Economics.

(1) Course A.

Campbell, D. Grant.—First Rank Honours and Medal Prize.
Griffin, Grace.—First Rank Honours.
Mackenzie, C. L.—First Rank Honours.
Hindley, J. G.—First Rank Honours.
Hadrill, Margaret F.—Second Rank Honours.
Rubinowitz, I. I.—Second Rank Honours.

(2) Course B.

Mackenzie, A. D. M.—First Rank Honours.

In Mathematics and Natural Philosophy.

Sheldon, Ernest W.—First Rank Honours and Anne Molson Gold Medal.
Simpson, Edith P.—First Rank Honours.

In Mental and Moral Philosophy.

McGougan, E.—Second Rank Honours.

In Modern Languages.

McCally, Mary K.—Second Rank Honours.

First Rank General Standing.

Healy, W. J.—Special Certificate.
McDonald, Geo. C.—Special Certificate.
MacFarlane, C. M. K.—Special Certificate.

THIRD YEAR.

HONOURS.

Fraser, G. A.—First Rank Honours and Prize in Chemistry.
Michaels, Rosebud F.—First Rank Honours and Prize in English Language and Literature.
Moule, Frances S.—First Rank Honours in English Language and Literature.

Bowman, Nora F. J.—First Rank Honours in English Language and Literature.
King, Louis V.—First Rank Honours and Prize in Mathematics; Prize in Physics.
Idler, S. May.—First Rank Honours in Modern Languages; Prize in French; Prize in German.
Chodat, Henry.—First Rank Honours in Modern Languages.
Taber, Marion M. D.—Second Rank Honours in Biology; Prize in Botany.
McFee, M. C. Coll.—Second Rank Honours in Chemistry.
Smith, Ella M. L.—Second Rank Honours in Classics.
Smith, May.—Second Rank Honours in History and Economics; Prize in History.
Lyman, Ruth.—Third Rank Honours in Biology.
Colgrove, W. G.—Prize in Mental and Moral Philosophy.
Halpenny, T. A.—Prize in Mental and Moral Philosophy.
Howitt, H.—Prize in Political Science.
Roy, P. R.—Prize in Semitic Languages.

PASSED THE THIRD YEAR EXAMINATIONS.

FOR COURSE LEADING TO B.A.

(Arranged in alphabetical order.)

Adams, Blanchard, Bowman, Chodat, Colgrove, Cotton, Crane, Curtis, Fraser, Gillean, Graham, Halpenny, Healy, Hepburn, Hill, Hitchcock, Howitt, Hyde, Idler, Jenkins, Kimber, King, Lyman, McFee, McMurtry, Michaels, Moule, Ower, Pearson, Perry, Robinson (F. G.), Robinson (W. W.), Roy, Smith (E.), Smith (M.), Stewart (T.), Stewart (W.), Taber, Tupper.

FOR COURSE LEADING TO B.SC.

STUDENTS IN ARTS, REGISTERED IN THE MEDICAL FACULTY, WHO WILL BE QUALIFIED TO ENTER THE FOURTH YEAR ARTS ON COMPLETING THEIR MEDICAL YEAR.

Locke, Rabinovitch, Tannenbaum.

SECOND YEAR.

HONOURS.

Carr, Wm. (Huntingdon Academy.)—First Rank Honours and Prize in Mathematics.
Naylor, R. K. (Shawville H. S.)—First Rank Honours in Classics; First Rank General Standing; Prize in Logic.
MacLeod, A. R. (Prince of Wales College, P.E.I.)—First Rank Honours in Classics; Prize in Classics.
Vineberg, Solomon (Montreal High School.)—First Rank Honours in Classics.
Rorke, Mabel L.—Second Rank Honours in Mathematics.
Shaw, Herbert T. (Montreal High School.)—First Rank General Standing.
Lewis, David S. (Montreal High School.)—First Rank General Standing; Prize in English.
Freedman, A. (Montreal High School.)—Prize in French.
Rogers, D. E.—Second Rank Honours in Logic and Psychology.
Barclay, G.—Second Rank Honours in Logic and Psychology.

PASSED THE SESSIONAL EXAMINATIONS.

(1).—FOR COURSE LEADING TO B.A.

CLASS I.—Shaw, Naylor.

CLASS II.—Kirsch, McLeod, Holway, Rorke, Douglas, McCallum; Gibb and Vineberg, equal; Cousins; Barclay and Drew and Freedman, equal.

CLASS III.—Clark, Smith,‡ Phelps,†; Carr and Rogers, equal; Langley,‡ Flanders†, Fraser (M.), Payne, Lyman, Clipperton, Eckhardt, Scott, Mundie, Mowatt.

Braidwood (*s*), Call†, Crocker (*s*), Edwars†, Fraser, A. (*s*), Henry (*s*), Housser (*s*), McTaggart (D.)‡ (*s*) Newman (*s*), Peterson, W. (*s*), Ryan, E. (*s*), Shearer (*s*).

(2)—FOR COURSE LEADING TO B.SC.

CLASS I.—Lewis.

FIRST YEAR.

HONOURS.

King, Lucille Mabel (Montreal High School for Girls).—First Rank Honours in Latin; First Rank General Standing; Prize in French; Prize in English; Prize in Latin.

Vincent, Irving (Stanstead Wes. Coll.)—First Rank Honours in Latin; First Rank General Standing; Prize in Classics.

Gould, Edwin M. L. (Montreal High School)—First Rank General Standing.

Couture, Louise Ida (Girls' High School, Montreal)—First Rank Honours in Latin; First Rank General Standing.

Logan, H. Tremaine (Vancouver College)—First Rank Honours in in Latin; First Rank General Standing.

Auld, F. M. (Prince of Wales College, P.E.I.)—Second Rank Honours in Latin; Coster Memorial Prize.

Heward, C. G. (St. John the Evangelist's School)—Second Rank Honours in Latin.

PASSED THE SESSIONAL EXAMINATIONS.

(1) FOR COURSE LEADING TO B.A.

King; Gould and Vincent, equal; Couture, Logan, Swift, Eaton, Wilson, Auld, Steedman, Mowat*, Mackenzie, Rider, Smith (A.) Yates‡, Flanders†; Heward; McDougall, Parker†, Hayden, Bates, Cheeseborough, Eldridge‡ and Hindle‡, equal; Crawford; Elliott and Meldrum, equal; Baylis, Mackay‡ Thomas, McPhalen‡; Brooks† and Wisdom, equal; Huntley Wood*, Parsons, Balon (D.H.), Cattell‡, Balon (I.), Cliff, Stanton (M.)†, Riley, Wollaston*, Williams, Mowatt, Peck‡, McDonald, Masson.

Martin (L. G.) *(qualified by passing in Mathematics).*

Allen (*s*), Armstrong, (G.D.) (*s*), Bartels (*s*), Cameron (*s*), Cattanach (*s*), Cherry (*s*), Churchill (*s*), Clearihue* (*s*), Coates (*s*), Crutchfield (*s*), Davis (*s*), Farman (*s*), Garvin (*s*), Harrison (*s*), Huxtable (*s*), James (*s*), Macaulay (*s*), MacLachlan (E.)‡ (*s*), Macmillan (*s*), Penny (*s*), Philip‡ (*s*).

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‡ *Vancouver College.*

† *Stanstead College.*

* *Victoria College.*

(*s*) ***Supplemental in one subject.***

(2) FOR COURSE LEADING TO B.SC.

Macaulay, Silver.

STANDING IN THE SEVERAL SUBJECTS.

(Subjects alphabetically arranged.)

FOURTH YEAR (GRADUATING CLASS.)

BOTANY.

CLASS I.—None. CLASS II.—Shanks. CLASS III.—McDiarmid.

CHEMISTRY (ORGANIC).

CLASS I.—None. CLASS II.—Marshall. CLASS III.—Walker.

CONSTITUTIONAL LAW.

CLASS I.—None. CLASS II.—Wickware. CLASS III.—None.

ENGLISH COMPOSITION.

CLASS I.—Gardner and Macfarlane, equal; Henry, Lomer, Wilson, Papineau; Dickson and Hart, equal; Craig, Draper, Mingie. CLASS II.—Ellison and Logan, equal; Stewart (L. J.). Wickware; Bouchard and McDiarmid, equal; Bell, Dickenson, Robertson, Gurd. CLASS III.—Gray, Chandier,, Walker; McDonald and Molson, equal; Marshall, Mowatt, Harvie.

ENGLISH LITERATURE: POETS OF THE 19TH CENTURY.

CLASS I.—Gardner; Hart and Macfarlane, equal; Dickson, Bouchard. CLASS II.—Wilson, Craig, Ellison, Mingle, Bell, Logan. CLASS III.—None.

ENGLISH LITERATURE: PROSE FICTION.

CLASS I.—Henry, Logan, Gardner, Dickson; Draper and Wilson, equal; Hart. CLASS II.—Bouchard, Macfarlane, Ellison, Bell, Craig. CLASS III.—Robertson.

EXPERIMENTAL PHYSICS.

Electricity and Magnetism.

CLASS I.—Lathe, Brown, Simpson; Freeze and MacLeod, equal. CLASS II.—Marshall. CLASS III.—Wickware.

FRENCH.

CLASS I.—McCally, Henry, Wilson. CLASS II.—None. CLASS III.—None .

GERMAN.

CLASS I.—McCally, Henry. CLASS II.—Robertson. CLASS III.—Bell, Craig.

GEOLOGY.

CLASS I.—Wilson, McDonald. CLASS II.—Molson; Bell and Craig, equal; Robertson, Ellison. CLASS III.—Bouchard.

GREEK.

CLASS I.—Rose, Archibald, Brooks. CLASS II.—Ellison.

HISTORY OF MODERN PHILOSOPHY.

CLASS I.—None. CLASS II.—McGougan. CLASS III.—None.

HISTORY.

CLASS I.—None. CLASS II.—Bouchard, Mingie. CLASS III.—None.

ITALIAN.

CLASS I.—Stewart (*Special Prize*), Draper. CLASS II.—None. CLASS III.—None.

LATIN.

CLASS I.—Archibald, Rose, Brooks.

MECHANICS AND HYDROSTATICS.

CLASS I.—None. CLASS II.—Henry.

MORAL PHILOSOPHY.

CLASS I.—McGougan. CLASS II.—Stewart (L. J.), Logan; McDonald and Mowatt, equal. CLASS III.—Molson.

POLITICAL ECONOMY.

(1) *Economics.*

CLASS I.—Healy. CLASS II.—Walker, Mingie. CLASS III.—Papineau, Wickware.
Post-graduate Course. CLASS I.—Davidson (J. M.).

(2) *Public Finance.*

CLASS I.—MacKenzie (A. D. M.). CLASS II.—Walker, Papineau. CLASS III.—None.

POLITICAL SCIENCE.

CLASS I.—Macdonald, Macfarlane. CLASS II.—Stewart, Marshall, Ellison. CLASS III.—Molson, Logan, Mowatt.

THIRD YEAR.

BOTANY.

CLASS I.—Taber (*Prize*) Lyman. CLASS II.—McCoy. CLASS III.—None.
Post-graduate Course. CLASS I.—Gates.
CLASS I.—Taber (*Prize*) Lyman, Gates. CLASS II.—McCoy. CLASS III.—None.

CHEMISTRY.

CLASS I.—None. CLASS II.—Curtis, Taber, Robinson (W. W.), Stewart (T. S.), McCoy, Stewart (W.), CLASS III.—Lyman.
Post-graduate Course. CLASS II.—Gates.

ENGLISH COMPOSITION.

CLASS I.—Michaels, Moule; Robinson (F. G.), and McMurtry, equal; Bowman, Luttrell, Halpenny and Adams, equal; Hitchcock and Curtis, equal; Pearson, Hill, Blanchard. CLASS II.—Graham, McCoy and Howitt, equal; Colgrove, Jenkins, Perry. CLASS III.—Kimber, Cameron, Gillean, Robinson (W.), Roy, Cotton, Hyde; Rabinovitch and Tannenbaum, equal; Cross; Munn and Hepburn, equal; Crane and Stewart (T.), equal; Locke and Ower, equal; Healy, Stewart (W.), Tupper.

ENGLISH LITERATURE: EIGHTEENTH CENTURY.

CLASS I.—Michaels, Robinson (F. G.), Hitchcock. CLASS II.—Moule, Blanchard, Bowman, Pearson, Hill. CLASS III.—Luttrell, Robertson, Graham.

ENGLISH LITERATURE: ELIZABETHAN DRAMATISTS.

CLASS I.—Michaels, Blanchard; Moule and Smith (J. C.), equal; Pearson, Luttrell, Hill, Hitchcock, Robinson (F. G.). CLASS II.—Bowman; Halpenny and Stewart (T. S.), equal; Tupper; Graham and Jenkins, equal. CLASS III.—Cotton, Colgrove, Stewart (W.), Crane.

ENGLISH LITERATURE: POETS OF THE 19TH CENTURY.

CLASS I.—None. CLASS II.—Jenkins, Smith (J. C.). CLASS III.—Halpenny, Cotton, Stewart (W.), Colgrove, Stewart (T.), Tupper, Crane.

EXPERIMENTAL PHYSICS.

CLASS I.—Fraser, McFee, Blanchard. CLASS II.—Curtis.

FRENCH.

CLASS I.—Idler (*Prize*), Chodat. CLASS II.—Roy, Perry; McMurtry and Rabinovitch, equal. CLASS III.—Cotton, Healy, Gillean and Hyde, equal; Tannenbaum, Hepburn, Kimber.

GEOLOGY.

CLASS I.—McFee and Fraser, equal; Colgrove, Adams. CLASS II.—McCoy, Graham, Roy, Tupper, Healy. CLASS III.—Smith (J.C.), Morgan (W. B.); Crane and Gillean, equal; Cross, Hepburn and Munn, equal; May.
Post-graduate Course. CLASS I.—Gates.

GERMAN.

CLASS I.—Idler (*Prize*), Binks. CLASS II.—Chodat, Smith (J. C.). CLASS III.—Healy, Prendergast, Kimber.

GREEK.

CLASS I.—Smith (E. L.). CLASS II.—Hepburn. CLASS III.—None.

HEBREW.

CLASS I.—Roy (*Prize*). CLASS II.—None. CLASS III.—None.

HISTORY.

CLASS I.—Smith (M.) (*Prize*), Hill, Coristine (M. S.). CLASS II.—Howitt, Pearson, Luttrell, Munn, Cameron; Hyde and Ower, equal. CLASS III.—Robinson and Tupper, equal; Cross.

Post-graduate Course. CLASS II.—Fee.

LATIN.

CLASS I.—Blanchard. CLASS II.—Smith (E. L.). CLASS III.—Gillean, Kimber.

LOGIC AND MENTAL PHILOSOPHY.

CLASS I.—None. CLASS II.—None. CLASS III.—McMurtry, Curtis.

MORAL PHILOSOPHY.

CLASS I.—Colgrove and Halpenny, equal (*Prizes*); Adams and Foote and Hitchcock, equal. CLASS II.—Jenkins. CLASS III.—Crane and Robinson (W.), equal; Morgan, Locke.

PHYSICS (SOUND, LIGHT, HEAT).

CLASS I.—Fraser, McFee, Blanchard. CLASS II. Curtis.

POLITIÇAL ECONOMY.

Economics.

CLASS I.—None. CLASS II.—Howitt. CLASS III.—Smith, Ower.

POLITICAL SCIENCE.

CLASS I.—Howitt (*Prize*), Jenkins. CLASS II.—Adams, Smith (M.), CLASS III.—McMurtry and Ower, equal; Hill and Robinson (W. W.), equal; Stewart (W.); Perry and Robinson (F. G.), equal; Foote, Graham and Tannenbaum, equal; Stewart (T.), Locke and Tupper, equal; Cameron and Cotton, equal; Hitchcock and Rabinovitch, equal; Pearson.

ZOOLOGY.

CLASS I.—None. CLASS II.—None. CLASS III.—Halpenny, Taber, Lyman.

Post-graduate Course. CLASS II.—Gates.

SECOND YEAR.

BIOLOGY (ELEMENTARY).

CLASS I.—Lewis, Kirsch, Drew. CLASS II.—McCallum. CLASS III.—Marcuse, Mundie, Massy.

BIOLOGY (CONTINUATION COURSE).

CLASS I.—None. CLASS II.—Freedman. CLASS III.—Clipperton and Newman, equal; Waugh.

CHEMISTRY.

CLASS I.—Lewis, Shaw, Fraser (*Prize*). CLASS II.—Kirsch, McCallum, Carr, Drew, Clipperton. CLASS III.—Cousins and Douglas, equal; Housser and Scott, equal; Mundie, Gibb; Crocker and Lyman and Marcuse, equal; Freedman, Payne; Hendry and Vineberg, equal; Rogers and Mowatt, equal; Waugh; Henry and Ross, equal.

ENGLISH.

CLASS.—Lewis (*Prize*), McTaggart (D.)‡, Shaw, Peterson, Flanders†; Eckhardt and Rorke, equal; Naylor and Ryan, equal; Call†. CLASS II.—Smith‡, McCallum and Payne and Phelps† and Rogers, equal; Vineberg; Douglas and Stanton (R. G.)† equal; Fraser (A. B.) and Kirsch, equal; Clark and Holway and McQueen‡, equal; MacLeod; Cousins and Fraser (M. G. S.) and Housser, equal; Gillmor; Barclay and Langley‡ and Lyman and Newman, equal; Gibb and Massy and Trench, equal. CLASS III.—Mowatt; Braidwood and Henry, equal; Freedman; Drew and Hendry and Marcuse and Mundie, equal; Clipperton and Ross, equal; Edwards†, Scott; Carr and Pease, equal; Crocker, Shearer.

FRENCH.

CLASS I.—Freedman (*Prize*); Call† and Shaw, equal; Ryan, Lewis. CLASS II.—Kirsch, Douglas, Rorke; Gibb and Vineberg, equal; Cousins and Peterson and Phelps†, equal; Barclay; Langley‡ and McTaggart (D.)‡, equal; Fraser (M. G.). CLASS III.—Ross, Gillmor and Scott, equal; Flanders† and Stanton (R. G.)†, equal; Clark, Henry, Lyman, Smith‡, Mowatt and Payne and Waugh, equal; Clipperton, Fraser (A. B.) and Newman, equal; Braidwood and Eckhardt, equal; Mundie.

GERMAN.

CLASS I.—None. CLASS II.—Holway, Lewis, Douglas and Langley‡ and McTaggart (D.)‡, equal; Ryan. CLASS III.— Clarke, Rorke, Smith‡, Fraser, Landmann, Phelps†.

GREEK.

CLASS I.—MacLeod, Naylor. CLASS II.—Gibb; Peterson and Rogers, equal. CLASS III.—McCann, Shearer, Edwards†.

HEBREW.

CLASS I.—Kennedy; Dawson and Ross and Tucker, equal; CLASS II.—None. CLASS III.—Shearer.

LATIN.

CLASS I.—Peterson, MacLeod (*Prize*); Shaw, Naylor, Kirsch; Ryan and Vineberg, equal. CLASS II.—Douglas, Holway; Cousins and Gibb and Housser, equal; Drew. CLASS III.—Clark and Rorke, equal; Barclay, Freedman, Lyman; Henry and McCallum, equal; Carr and Langley‡, equal; Fraser (M. G.) and Payne and Phelps† and Rogers, equal; Eckhardt and Edwards† and Smith‡, equal; Clipperton, Flanders† and Fraser (A. B.), equal; Newman, Braidwood; Call† and Mowatt and Scott, equal; Massy; Gillmor and Mundie and Pease and McTaggart (D.)†, equal.

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‡ *Vancouver College.*
† ***Stanstead College.***

LOGIC.

CLASS I.—Naylor (*Prize*). CLASS II.—Kirsch, McTaggart‡, Barclay. CLASS III.—MacLeod, Rogers, Holway, Smith‡, McCallum, Payne, Cousins, Vineberg, Eckhardt, Langley‡, Carr, Peterson; Phelps† and Ryan, equal; Drew, Hendry, Housser, Freedman; Flanders†; McCann and Shearer, equal; Call† and Gibb and Lyman and Mowatt, equal; Crocker and Edwards† and Scott, equal.

MATHEMATICS.

(1) *Algebra.*

CLASS I.—Shaw, Holway, Naylor, Brown, Smith‡. CLASS II.—McLeod, Clark, Braidwood, Crocker, Flanders†. CLASS III.—Carr, Fraser (M. G. S.), Stanton†, Ryan, Eckhardt, Langley‡, Phelps†, Edwards†, McQueen‡, Barclay.

(2) *Spherical Trigonometry.*

CLASS I.—Shaw, Holway, Brown, Carr. CLASS II.—McLeod, Barclay, Housser, Naylor, Clark, Flanders†, Langley‡. CLASS III.—Phelps†, Crocker, Ryan, Fraser (M. G. S.), Fraser (A. B.), Henry, Stanton†, Pease, McTaggart (D.)‡, McQueen‡, Smith‡, Eckhardt, Braidwood.

(3) *Advanced Section.*

Carr.—First Rank Honours and Prize. Rorke.—Second Rank Honours.

PSYCHOLOGY. (*Christmas, 1903.*)

CLASS I.—Naylor and Phelps†, equal. CLASS II.—Kirsch, Holway; Barclay and McCallum and Rogers and Stanton†, equal. CLASS III.—Ryan†, Eckhardt and Allison, equal; McTaggart (D.)‡ and Smith‡, equal; Call† and Cousins and McQueen‡, equal; Langley‡, Peterson, Freedman, Featherston and Flanders† and Shearer and Vineberg, equal; Drew and McLeod, equal; Carr, Edwards† and Massy and Mowatt, equal; Hannah and Lyman, equal; Crocker and Gibb and Gillmor and Housser and McCann and Scott and Stafford, equal.

Passed Suppl., April 1904.—Hendry, Payne.

FIRST YEAR.

ENGLISH.

CLASS I.—King (*Prize*), Mowat*, Vincent, Swift; Brooks† and Couture and Gould, equal; Auld and Wood*, equal; Spencer*, Parker†, McPhalen‡, Huxtable; Cheeseborough and Mackay* and McMillan and Smith (A.) and Thompson, equal; Wollaston*. CLASS II.—Logan and Yates‡, equal; Clearihue* and Eaton and Heward, equal; Crawford and Ellis‡ and Penny, equal; Farman and Harrison and Mackenzie, equal; Davis; Flanders† and Steedman, equal; Bates; Brown† and Macaulay (G.) and Stanton (M. C.)† and Stewart (M.), equal; Armstrong (G.) and Baylis and Hayden, equal; Rider and Snowdon and Wisdom, equal; Stevens, Lyster and Van Sickle‡, equal. CLASS III.—Rogers*, Cattanach and Dickey‡ and Elliott and Wilson, equal; Belyea; Armstrong (L.) and Balon (D.) and James,

† *Stanstead College.*
‡ *Vancouver College.*
* *Victoria College.*

equal; Cattell‡ and Cherry and Mowatt and Peck‡ and Thomas, equal; Cameron and Coates and Drysdale and Hindle‡, equal; Macaulay (E.), Balon (I.); Bernstein and Leacock and McDougall, equal; Bartels and Cushing and Eldridge‡ and Masson and Parsons, equal; Jackson‡ and Riley, equal; Huntley and Johnston and McQueen‡, equal; Anderson‡ and Chandler and Kydd and Savage and Williams, equal; Cliff and Garvin and Meldrum and Morrison, equal; Crutchfield and Dickson, equal; Allen; McDonald and Philip‡ and Smith (M.), equal; Blair and Hancock and Macdiarmid, equal; Flitton‡, Churchill, Weston, Dixon‡, Levinson (M.); Cole and Silver and Turnbull and Wood, equal.

FRENCH.

Class I.—King (*Prize*), Swift. Class II.—Parker†; Blair and Cheeseborough, equal; Hayden and Rider, equal; Heward, Thomas; Mowat*; Cherry and McDougall and McPhalen‡ and Stevens, equal; Class III.—Auld and Penny, equal; Dixon‡, Balon (D.), Wilson, Stewart (M.); Baylis and Thompson, equal; Armstrong (L. F.), Kydd and Mackay‡ and MacDonald and Williams, equal; Meldrum; Balon (I.) and Flitton‡ and Stanton†, equal; Cattell‡ and Eldridge‡ and Masson and Mowatt and Simpson, equal; Steedman, Bartels and Cattanach and Davis, equal; Wood (H.); Creswell and Flanders† and Macaulay (G.) and MacLachlan‡, equal; Dickey‡; Macdiarmid; Cameron and Farman, equal; Wood*, Goodchild and Peel, equal; McKeown and Silver and Wollaston*, equal; Macaulay (E.); Brooks† and Churchill, equal; Allen and Coates and Garvin and Huntley and Levison (M.) and Savage, equal.

GERMAN.

Class I.—Swift (*Prize*), Couture, King. Class II.—Eaton, Cherry, Hayden, Hindle‡. Class III.—Peck‡, Balon (D. H.) Armstrong (G. D.) Stanton† and Thomas, equal; Philip‡, Jackson‡, Silver and Macaulay (G.), equal; Farman, Kydd.

GERMAN (BEGINNERS.)

Class I.—Mills. Class II.—Billings. Class III.—Argue, Simpson, Bates, Lindsay.

GREEK.

Class I.—Vincent (*Prize*), Logan, Huxtable, Gould, Smith (A.); Mackenzie and Penny, equal. Class II.—Crawford, Wisdom, Elliott, Yates‡. Class III.—Cliff, Parsons, Van Sickle‡, Bartels, Riley, Harrison, Armstrong (G. D.).

LATIN.

Class I.—King, Couture, Eaton; Farman and Gould, equal; Steedman and Swift, equal; Vincent; Logan and Huxtable, equal; Penny. Class II.—Wilson, Bernstein (M. M.), Rider, Meldrum, Mackenzie and Smith (A.) and Yates‡, equal; Heward and Crawford, equal; Mowat*, Auld, McDougall; Hindle‡ and Riley and Thomas, equal. Class III.—Cheeseborough and Parker†, equal; Wisdom, Cattanach, Elliott, Cliff; Balon (D. H.) and Eldridge‡ and Hayden, equal; Mowatt and Williams and Flanders†, equal; Bartels and Baylis, equal; Macaulay (E.) and Parsons and Van Sickle‡, equal; Harrison and Huntley and Wood*, equal; Brooks† and Crutchfield, equal; Cattell‡ and Mackay‡, equal; MacLachlan‡, Bates and Davis and Masson and McPhalen‡, equal; Cherry and Jackson‡ and McMillan and Wollaston*, equal; Armstrong and Blair, equal; Balon (I) and Spencer*, equal; James and Leacock and Macdiarmid, equal; MacDonald and Kydd, equal; Anderson‡ and Clearihue* and Peck‡ and Philip‡, equal.

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MATHEMATICS.

(1) *Trigonometry.*

CLASS I.—Cameron, Rider, Couture, Ellis‡, Meldrum, McMillan, Wilson, Bates, Vincent, Gould, Logan, Martin. CLASS II.—Mowat*, Allen, Flanders†, Eldridge‡, Cliff, Parsons, Mackay‡, Turnbull, Steedman, Garvin, Morrison, Silver, Baylis, Eaton, King, Yates‡, Balon (I.), Balon (D. H.), Clearihue*, Huntley, Swift. CLASS III.—McKenzie, James, Auld, Elliott, Heward, Crutchfield, Crawford, McLachlan‡, Philip‡, Macaulay (E. E.), McDougall, Cushing, Drysdale, Gale, Thomas, McQueen‡, Stanton†, Cattell‡, Morris, Williams, Brooks†, McDonald, Cheeseborough, Wood, Smith (A.), Dickey‡, Bartels, Huxtable, Wisdom, Riley, Wollaston*, Harrison, Churchill, Stewart, Macaulay (G. F.), Peck‡, Hindle‡, Belyea, Reid†, Parker†, Armstrong (L. F.), McPhelan‡, Taylor, Coates, Masson, Mowatt, Wood*.

Passed, Hayden.

(2) *Algebra.*

CLASS I.—Rider, Bates, Eldridge‡, MacLachlan‡, Hayden, Couture, Logan, McDougall, Vincent, Wilson, King, McMillan, Parsons, Mowat*. CLASS II.—Turnbull, Ellis‡, Auld, Dickey‡, Mackay‡, McQueen‡, Steedman, Cameron, Flanders†, Clearihue*, Cattell‡, Baylis, Brooks†, Gould, Heward, Cliff, Huntley, Macaulay (E. E.), Smith (A.), Crutchfield, Johnston, Wollaston*, CLASS III.—McKenzie, Macaulay (G. F.), Gale, Savage, Balon (I.), Martin, Kydd, Wood, Allen, Belyea, Elliott, Coates, Peck‡, Yates‡, Stanton (M.C.)†, Rogers*, McPhelan‡, Huxtable, Williams, Drysdale, Tessier, Meldrum, Cheeseborough, Leacock, Cherry, Morrison, Thomas, Goodchild, Patrick, Wisdom, Silver, Eaton, Masson, Philip‡, Riley, Hindle‡, Taylor, Stewart, Parker†, Garvin, Cattanach, Penny, Engelke, Armstrong (G. D.), Balon (D. H.), Bartels, Chandler, Jackson‡, Churchill, Flitton‡, McDonald, Crawford, Reid†, Cushing, Wood*, Davis, James, Mowatt, Ross, Brown†, Swift.

(3) *Advanced Section.*

CLASS I.—McMillan. CLASS II.—Turnbull and Wilson, equal.

PHYSICS.

CLASS I.—Gould, Wilson, Auld, King, Flanders†, Vincent, Steedman, Turnbull, Bates. CLASS II.—Yates‡, Farman and Silver and Taylor, equal; Couture and McDougall, equal; Eldridge‡ and Huntley, equal; Cameron and Ellis‡ and Parker†, equal; Johnston; Eaton and Hindle‡, equal; Mackenzie; Elliot and Hayden, equal; Baylis and Crutchfield and Gale and McMillan, equal; Logan and Smith (A.) and Wood*, equal. CLASS III.—Brooks†, Belyea and Davis and Huxtable and Savage, equal; Armstrong and Riley, equal; James and Mowat* and Swift, equal; Cherry and Garvin and McQueen‡, equal; Cattanach and Cattell‡ and Rider, equal; Heward, Cheeseborough, McDonald; Coates and Macaulay (G. F.), equal; MacLachlan‡, Balon (I.) and Morison, equal; McPhelen‡, Allen and Balon (D. H.) and Patrick, equal; Masson and Stanton† and Clearihue*, equal; Parsons, Mowatt and Thomas, equal; Brown† and Cushing and Meldrum and Williams, equal; Crawford and Leacock, equal; Hancock, Lindsay and Penny, equal; Chandler and Cliff and Peck‡ and Wisdom, equal; Drysdale, Harrison; Mackay and Rogers* and Wollaston*, equal; Churchill and Gwyn andd Stewart (A.), equal.

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† *Stanstead College.*
‡ *Vancouver College.*
* *Victoria College.*

Faculty of Applied Science.

FOURTH YEAR (GRADUATING CLASS.)

HONOURS.

(In Alphabetical Order.)

Blanchard, Aubrey Amison.—Honours in Designing, including Structural Engineering.

Blumenthal, Samuel.—British Association Medal and Prize; Honours in Theory of Structures, including Graphical Statics and Testing Laboratory, and in Designing, including Structural Engineering and in Geodesy.

Brown, Frederick Baylis (B.Sc.)—Honours in Alternating Current; and Alternating Current Machinery, Electric Lighting and Power Distribution, and Electric Traction.

Carlyle, Ernest Jerrold.—Allis Chalmers Scholarship in Ore Dressing; Honours in Mining and Ore Dressing.

Chaplin, Charles John.—Honours in Designing.

Drysdale, William Flockhart.—Prize for Summer Thesis; Honours in Dynamics of Machines.

Grice, James Hugh.—Honours in Geology.

Harvey, John Buicke.—Prize for Summer Thesis; Honours in Designing, including Structural Engineering and in Geodesy.

Johnson, Frederick Murray Godschall.—British Association Medal and Prize; Honours in Physical Chemistry and Mineral Chemistry.

Lawrence, William Dawson.—Honours in Theory of Structures, including Graphical Statics and Testing Laboratory, and in Geodesy.

LeMaistre, Frederick John.—Honours in Mineral Chemistry.

McKay, Frederick Alexander (B.Sc.).—Honours in Electric Lighting and Power Distribution and in Electric Traction.

MacNaughton, William Gilbert (B.A.).—Honours in Organic Chemistry.

McDougall, George Kinghorn.—British Association Medal and Prize; Prize for Summer Thesis.

McPhee, James McDonald.—British Association Medal and Prize; Dawson Fellowship in Mining; First Carlyle Prize; Honours in Mining and Ore Dressing and in Geology.

Parlee, Norman Whittier.—Second Carlyle Prize; Honours in Mining and Ore Dressing.

Spencer, Arthur Gordon (B.A.).—Honours in Physical Chemistry and Organic Chemistry.

PASSED FOR THE DEGREE OF BACHELOR OF SCIENCE.

(In order of merit.)

CHEMISTRY.

Johnson, Frederick Murray Godschall, Montreal, Que.
Spencer, Arthur Gordon (B.A.), Truro, N.S.
LeMaistre, Frederick John, Westmount, Que.
MacNaughton, William Gilbert (B.A.), Huntingdon, Que.

CIVIL ENGINEERING.

Blumenthal, Samuel, Montreal, Que.
Lawrence, William Dawson, Maitland, Hants Co., N.S.
Harvey, John Buicke, Lyndhurst, Ont.
Blanchard, Aubrey Amison, Charlottetown, P.E.I.
Lucas, Frederick Travers, Hamilton, Ont.
Osler, Stratton Henry, Cobourg, Ont.
Lambart, Howard Frederick John, New Edinburgh, Ont.
Haffner, Henry, John Alexander, Winnipeg, Man.
Jennings, Gordon Tyndall, Toronto, Ont.

ELECTRICAL ENGINEERING.

McDougall, George Kinghorn, Montreal, Que.
Cole, George Herbert, Ottawa, Ont.
Cardew, John Haydon, South Beach, Young's Point, Ont.
Scott, George Walker (B.A.), Montreal, Que.
McCloskey, Frederick William, Boiestown, N.B.
Wenger, John Allan, Ayrton, Ont.
Peaslee, Alexander Sankey Latty, Defiance, Ohio, U.S.A.
Dutcher, Howard Ketchum, Charlottetown, P.E.I.
Marrotte, Louis Henry, Westmount, Que.
Wurtele, John Stone Hunter, Acton Vale, Que.
Blatch, Harry Ellis, St. John's, Nfld.
Rodger, Herbert Freeman, St. John's Nfld.
Roffey, Myles Herbert, Braintree, Essex, Eng. *Ægrotat.*
Brown, Frederick Baylis, B.Sc., Montreal, Que.
McKay, Frederick Alexander, B.Sc., Montreal, Que.
Gale, George Gordon, B.Sc., Quebec, Que.

MECHANICAL ENGINEERING.

Chaplin, Charles John, Westmount, Que.
Drysdale, William Flockhart, Montreal, Que.
Kemp, Robert Alexander, Beamsville, Ont.
Greely, John William Gamble, Toronto, Ont.
Wilkes, Frederick Chauncey Douglas, Brantford, Ont.

MINING ENGINEERING.

McPhee, James McDonald, Lock Katrine, N.S.
Parlee, Norman Whittier, Rossland, B.C.
Grice, James Hugh, Bootle, Cumberland, Eng.
Carlyle, Ernest Jerrold, Woodstock, Ont.
Chambers, Robert Allison, Truro, N.S.
Taylor, Reginald Fairman, Gananoque, Ont.
Richards, Charles Clifton, Charlottetown, P.E.I.
McMurtry, Gordon Ogilvie, Montreal, Que.
Campbell, Colin St. George, Aldershott, Ont.
Webster, George Boyd, Montreal, Que.
Davis, Patrick, Moy, Windsor, Ont.
Deyell, Harold John, Port Hope, Ont.
Sullivan, Michael Henry, Ottawa, Ont.
Cameron, John Alvin, Toronto, Ont.
Wilson, William Douglas, Hamilton, Ont.
Gnaedinger, Ernest George, Montreal, Que. *Ægrotat.*

THIRD YEAR.

PRIZES.

(In alphabetical order.)

Blanchet, Guy H.—Third Mathematical Prize.
Boyle, Robert W.—Second Mathematical Prize; Prize for Mechanics.
Can. Gen. Elect. Scholarship.

Cropper, William C. M.—Prize for Machine Design.
Findlay, Delmer C.—Can. Gen. Elect. Scholarship.
Forbes, Harry L.—Prizes for Mapping and Machine Design.
Fyshe, Thomas M.—First McCarthy Prize for Fieldwork.
Glassco, Gordon B.—Can. Gen. Elect. Scholarship; Prizes for Calculus, and Graphical Statics.
Jewett, F. Coburn.—Prize for Surveying.
Jost, E. Burton.—Prize for Surveying Fieldwork.
Livingston, Douglas C.—Second McCarthy Prize for Fieldwork.
MacDermot, Sidney G. F.—Prizes for Calculus, Mechanics and Mechanical Drawing.
MacMillen, Harry H.—Prize for Dynamics of Machines.
McLeish, Ian.—Prizes for Dynamics of Machines and Electrical Measurements.
Mooney, Chester A.—Prize for Thermodynamics.
Mundy, Oswald A.—Can. Gen. Elect. Scholarship.
Sutherland, Charles H.—Prize for Dynamics of Machines.

PASSED THE SESSIONAL EXAMINATIONS.

(In order of merit.)

CIVIL ENGINEERING.

Jewett, F. Coburn, Sheffield, N.B.
Fyshe, Thomas M., Montreal, Que.
Kydd, George, Montreal, Que.
Jost, E. Burton, Guysboro, N.S.
*Hogan, John, Westmount, Que.
*Idsardi, Harold, St. Thomas, Ont.
*Hamilton, Wilfrid, Montreal, Que.
*McIntosh, Robert, Newcastle, Ont.

ELECTRICAL ENGINEERING.

Cropper, William C. M., Kingstown, St. Vincent, B.W.I.
Boyle, Robert W., Carbonear, Nfld.
McLeish, Ian, Montreal, Que.
MacDermot, Sidney G.F., Ropley, Jamaica, W.I.
Willard, Charlie, Morrisburg, Ont.
Scouler, Gavin T., New Westminster, B.C.
Harris, A. Dale, Ottawa, Ont.
Wright, Clifton H., Barbadoes, W.I.
Burpee, Lockwood, Gibson, N.B.
Findlay, Delmer C., Danville, Que.
Glassco, Gordon B., Hamilton, Ont.
Bowness, Ernest W., Kensington, P.E.I.
Johnstone, George A., Rednersville, Ont.
Archibald, Hiram H., Harbour Grace, Nfd.
Wheaton, H. Ashley, Elgin, Albert Co., N.B.
*Ross, Walter G., Port Perry, Ont.
Drinkwater, Kenneth E., Montreal.
*Redpath, William, Montreal, Que.
Weagant, Roy A. Derby Line, Vt., U.S.A.
Piché, Ernest A., Montreal, Que.
*Cunha, Stanley, Kingston, Jamaica, W.I.
*Campbell, John A., Cheltenham, Ont.
Mundy, Oswald A., Hamilton, Ont.
*Price, H. Lawrence, Montmorency, Que.
*Fullington, Moses A., Johnson, Vt., U.S.A.
*McLean, Donald (B.A.), Campbellton, N.B.
*Bray, Raymond P., Campbellton, N.B.

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* *To pass Supplemental Examination.*

MECHANICAL ENGINEERING.

MacMillen, Harry H., Alberry Plains, P.E.I.
Sutherland, Charles H., New Glasgow, N.S.
Leonard, F. Ibbotson, London, Ont.
Mooney, Chester A., Ausable Chasm, N.Y., U.S.A.
Miner, R. Herbert, Cowansville, Que.
Cockshutt, Harvey W., Brantford, Ont.
*Fraser, Donald M., Montreal, Que.
*Turnbull, Harvard, Montreal, Que.

METALLURGY.

Hamilton, Alfred M., Montreal, Que.

MINING ENGINEERING.

Forbes, Harry L., Waverley, N.S.
*Sharpe, George P., Agassiz, B.C.
*Blanchet, Guy H., Ottawa, Ont.
*Martin, Edward N., York, Haldimand Co., Ont.

SECOND YEAR.

PRIZES.

(In Alphabetical Order.)

Bell, George E.—Scott Exhibition; Prizes for Physics, Mathematics, Mapping, Surveying, Surveying Fieldwork and Shopwork.
Black, Douglas E.—Prize for Mechanical Drawing.
Blackader, Gordon H.—Taylor Architectural Scholarship.
Brennan, George E.—Prize for Mechanical Drawing.
Durland, Royden K.—Prizes for Kinematics of Machines and Shopwork.
Lea, William S.—Prizes for Physics, Kinematics of Machines and Descriptive Geometry.
McLachlan, D. William.—Scott Prize; Prize for Descriptive Geometry.
Piers, E. O. Temple, B.A.—Prize for Building Construction.
Walker, Cecil W.—Prize for Physics.

PASSED THE SESSIONAL EXAMINATIONS.

(In order of merit.)

ARCHITECTURE.

*Blackader, Gordon H., Montreal, Que.

CHEMISTRY.

*Davidson, Thomas R., Montreal, Que.
Harvie, Robert, Westmount, Que.

CIVIL ENGINEERING.

Bell, George E., St. Thomas, Ont.
McLachlan, D. William, Lochaber Bay, Que.
*Pedley, Norman F., Montreal, Que.
Anderson, Frederic W., Ottawa, Ont.
Piers, E. O. Temple (B.A.), Wolfville, N.S.
†Clawson, Ernest E., St. John, N.B.
*Brunner, Godfrey H., Huyton, Liverpool, Eng.
*McCuaig, G. Eric, Montreal, Que.
*Pickard, Herbert G., Exeter, Ont.

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* *To pass Supplemental Examination.*
† *Conditioned in First Year Subject.*

ELECTRICAL ENGINEERING.

Lea, William S., Victoria, P.E.I.
Walker, Cecil W., Kensington, P.E.I.
Durland, Royden K., Yarmouth, N.S.
Brennan, George E., Ottawa, Ont.
*Forbes, John M., Bonavista, Nfld.
Hibbard, Melville L., Farnham, Que.
*Cram, Alexander S., Smiths Falls, Ont.
Higgins, B. Howard, London, Ont.
Beaubien, James G., Outremont, Que.
*Gurd, A. Douglas, Montreal, Que.
*Harvie, James, Westmount, Que.
*Tupper, Frederick M., Truro, N.S.
*Mudge, Reginald, Montreal, Que.
Ross, Daniel H., Montreal, Que.
*Corrigan, Thomas L., Brockville, Ont.
Boyd, Alfred M. S., Westmount, Que.
*Ewens, W. Sydney, Owen Sound, Ont.
Purdy, James DeL. (B.A.), Springhill, N.S.

MECHANICAL ENGINEERING.

Jackson, Maunsel B., Toronto, Ont.
Kirkpatrick, Everett C., Montreal West, Que.
*Loudon, Andrew C., Ottawa, Ont.
Black, Douglas E., Montreal, Que.
*Turley, Edward J., Frankford, Ont.
*Benedict, Elmore M., Brantford, Ont.
*Taylor, Alan H., Ottawa, Ont.
*Brady, James C., Victoria, B.C.
*Pinch, Harry H., Owen Sound, Ont.

METALLURGY.

*Jones, Andrew U., St. John, N.B.

MINING ENGINEERING.

Sharp, Lester A., Summerside, P.E.I.
*McMeekin, Albert, Bright, Ont.
*Burnett, Archibald, Montreal, Que.
*Winter, Elliot E., Georgetown, British Guiana.
*Cole, L. Heber, Montreal, Que.
Wickware, Francis G., Eastons Corners, Ont.
*Howell, Edgar N., Westmount, Que.
*Ritchie, A. Bruce, Halifax, N.S.
*Dickenson, John G., Hazel Hill, N.S.

FIRST YEAR.

PRIZES.

(In alphabetical order.)

Broidy, Jacob I., Prize for Descriptive Geometry, Second Prize for Mathematics.
Hay, Norman K.—Second Prize for Freehand Drawing and Lettering.
Lamb, Harry M.—First Prize for Mathematics; Prizes for Descriptive Geometry and Physics.
Pringle, Angus F.—Prize for Descriptive Geometry, Second Prize for Mathematics; Second Fleet Workshop Prize.

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* *To pass Supplemental Examination.*

Sproule, Gordon.—Prize for Descriptive Geometry.
Williams, Frederick H.—First Fleet Workshop Prize; First Prize for Freehand Drawing and Lettering.

PASSED THE SESSIONAL EXAMINATIONS.

(In order of merit. Students of equal standing are bracketed together.)

Lamb, Harry M., Montreal, Que.
Pringle, Angus F., Belleville, Ont.
Kingston, Lawrence B., Ottawa, Ont.
†Broidy, Jacob I., Springhill, N.S.
†Riddell, Arthur G., Hamilton, Ont.
*Kenyon, Lot A., Rochelle, Que.
†Blackett, Victor St. C., Glace Bay, N.S.
Wright, George R. (B.A.),, Salisbury, N.B.
Griffin, Frank F., Winnipeg, Man.
Sproule, Gordon, St. Lambert, Que.
Elliott, Percy H., Saskatoon, N.W.T.
Brown, Samuel B., Ottawa, Ont.
Miller, Henry B., Montreal, Que.
Brooks, Charles E., Grafton, Ont.
*Mulock, Redford H., Winnipeg, Man.
Wheaton, Isaac, Sackville, N.B.
Williams, Frederick H., East Sherbrooke, Que.
Shearer, George W., Montreal, Que.
Holloway, Edward S., Montreal, Que.
Westland, Clarence, Wyoming, Ont.
Martin, George E., Moncton, N.B.
Hargrave, William H., Medicine Hat, N.W.T.
Whitcomb, Frank O., Smith's Falls, Ont.
[Davis, George H., Gananoque, Ont.
[Macaulay, Rupert M., Scotstown, Que.
Wilson, William S., Niagara Falls South, Ont.
Trimingham, James H., Jun., Hamilton, Bermuda.
Hall, Norman McL., Cornwall, Ont.
Woodyatt, James B., Brantford, Ont.
[Davis, Allan E., Grenfell, Assa., N.W.T.
[Hay, Norman K., Ottawa, Ont.
Foster, Henry S., Montreal, Que.
Estey, James R., Moncton, N.B.
*Callaghan, John C., Hamilton, Ont.
Allan, Marshall G., Perth, Ont.
*Patterson, Raymond H., Melbourne, Australia.
*Brown, Lindsay O., Kemptville, Ont.
Maxwell, Lawrence G., St. Mary's, Ont.
[†*Gamble, Clarke W., Victoria, B.C.
[*McCuaig, Douglas R., Montreal, Que.
[Beaton, Norman H., St. Catharines, Ont.
{ *Black, Hiram J., Amherst, N.S.
[Engel, Nathan L., Montreal, Que.
Howe, John P., Pembroke, Ont.
Richards, Edward L., Port Antonio, Jamaica, B.W.I.
*Haskell, Ludlow St. J., Montreal, Que.
*Hepburn, Maurice G., Dunmore, Cullompton, Eng.
*Werner, Sheldon W., Elmira, Ont.
†*Little, William D., Morden, Man.
*Daly, William J., Montreal, Que.
†*McCuaig, Stuart, Montreal, Que.
*Robinson, William W., Montreal, Que.

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* *To pass Supplemental Examination.*
† *Matriculation Conditioned.*

*Morrow, Hugh M., Halifax, N.S.
†*Mulligan, William H., Chapleau, Ont.
†*MacKay, Ernest G., New Glasgow, N.S.
*Otty, George N., Hampton, N.B.
*Beaudry, Abel C., Montreal, Que.
*Lynch, Francis C. C., Carrillon, Que.

GRADUATE RESEARCH WORK.—The Governor-General's Silver Medal has been awarded to Charles M. McKergow, M.Sc., for his Research on "The relation of stress to strain in tension bars and the thermal expansion of metals under stress."

ADMITTED TO THE DEGREE OF BACHELOR OF SCIENCE.

(AD EUNDEM.)

Beullac, Marcel Célestin Joseph, B.Sc. (Univ. of France), Montreal, Que.

ADMITTED TO THE DEGREE OF MASTER OF SCIENCE.

(In Course.)

Egleson, James Ernest Aiken, B.Sc., Ottawa, Ont.
Gill, James Lester Willis, B.A.Sc., Kingston, Ont.
Hall, Oliver, B.Sc., Washington, Ont.
McKergow, Charles Millar, B.Sc., Westmount, Que.
Roberts, Arthur Reginald, B.Sc., Montreal, Que.
Robertson, John Ferguson, B.Sc., Charlottetown, P.E.I.

ADMITTED TO THE DEGREE OF DOCTOR OF SCIENCE.

(In Course.)

Waddell, John Alexander Law, M.Sc., Kansas City, Mo., U.S.A.

ADMITTED TO THE DEGREE OF DOCTOR OF LAWS

(HONORARY).

Edward Weston, Esq., Newark, N.J.

STANDING IN THE SEVERAL SUBJECTS

ALTERNATING CURRENT MACHINERY.

FOURTH YEAR.—*Class I.*—Brown. *Class II.*—Blatch, Cole, Marrotte, McDougall. *Class III.*—Wenger, Gale, MacKay, Rodger, Dutcher, Scott, Cardew, McCloskey, Peaslee, Würtele.

ARCHITECTURAL DRAWING.

SECOND YEAR.—*Class I.*—Alford. *Class II.*—Blackader, Shorey.

ARCHITECTURE (HISTORY OF).

SECOND YEAR.—*Class I.*—Blackader. *Class II.*—None. *Class III.*—Shorey.

ARCHITECTURE (THEORY AND EVOLUTION OF).

SECOND YEAR.—*Class I.*—None. *Class II.*—Blackader. *Class III.*—Shorey.

ASSAYING.

THIRD YEAR.—*Class I.*—Forbes, Hamilton (A. M.). *Class II.*—Sharpe Ritchie, Martin, Blanchet.

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* *To pass Supplemental Examination.*
† *Matriculation Conditioned.*

ASTRONOMY.

THIRD YEAR.—*Class I.*—Jost. *Class II.*—Jewett, Fyshe, Kydd, Hogan. *Class III.*—Forbes, Wilson; Hamilton and Martin, equal.

BUILDING CONSTRUCTION.

SECOND YEAR.—*Class I.*—Piers. *Class II.*—Bell, Blackader, McLachlan, Clawson, Brunner, Pickard. *Class III.*—Anderson, Pedley, Baylis, McDonald (H. F.), McCuaig, Shorey.

CHEMISTRY (PRACTICAL).

SECOND YEAR.—(*Chemistry Course.*)—*Class I.*—Davidson, Dickson, Jones. (*Architectural, Civil, Electrical and Mechanical Engineering Courses.*)—*Class I.*—Durland and Lea, equal. *Class II.*—Black and Pickard, equal; Taylor; Beaubien and Bell and Dougherty and Loudon and Turley, equal; Anderson and Brennan and Howe and Pedley, equal; Clawson and Harvie (J.) and McLachlan and Mudge and Walker, equal; Baylis and Cram and McDonald (H. F.) and Newton, equal; Boyd and Forbes and Gaunt, equal; Brady and Ewens and Roger, equal; Blackader and Hadley and Skelton, equal; Kirkpatrick and Norton and Tupper, equal. *Class III.*—Corrigan and Jackson and Shorey, equal; Hibbard, McCuaig; Presner and Ryan and Scott, equal; Benedict, MacKay (G. W.), Leonard, Slavin; Gurd and Jardine and Macdonald (R. R.), equal. (*Mining Engineering Course.*)—*Class I.*—Cole. *Class II.*—McMeekin, Sharp; Burnett and Winter, equal; Howell, Cowen, Slater. *Class III.*—Brown (W. G. B.), Harding, Gillis.

CHEMISTRY (THEORETICAL).

SECOND YEAR.—*Class I.*—Jones, Forbes, Bell. *Class II.*—Lea; Brunner and Davidson, equal; Pedley, Anderson, Burnett, Walker, Sharp. *Class III.*—Corrigan and Durland, equal; Cram; Blackader and Turley and Winter, equal; Brennan and Jackson, equal; Taylor; Cowen and Pickard, equal; Hibbard and Higgins and McCuaig, equal; McLachlan; Kirkpatrick and McMeekin, equal; Boyd, Tupper; Howell and Loudon, equal; Howe, Gurd, Beaubien; Clawson and Ewens and McDonald (H. F.), equal; Benedict and Black and Gillis and Piers, equal.

CHEMISTRY—ORGANIC (PRACTICAL).

THIRD YEAR.—*Class I.*—Robertson.

CHEMISTRY—ORGANIC (THEORETICAL).

FOURTH YEAR.—*Class II.*—MacNaughton, Spencer.
THIRD YEAR.—*Class I.*—Robertson.

CHEMISTRY—PHYSICAL.

FOURTH YEAR.—*Class I.*—Johnson, Spencer. *Class II.*—LeMaistre.

CHEMISTRY—INDUSTRIAL.

THIRD YEAR.—*Class I.*—Brown (W. Gordon), Robertson, Lathe. *Class II.*—Hamilton (A. M.).

CONTINUOUS CURRENT MACHINERY.

THIRD YEAR.—(*Electrical Engineering Course*)—*Class I.*—McLeish, Harris, Boyle. *Class II.*—Cropper, Scouler, Archibald, Price; Blatch

and Findlay and Wright, equal. *Class III.*—MacDermot; Glassco and Ross, equal; Fullington and Mundy and Willard, equal; Burpee and Drinkwater and Johnstone and Weagant, equal; Redpath; Bowness and Wheaton, equal; Piche, Bedwell. (*Mechanical Engineering Course*)—*Class I.*—None. *Class II.*—Sutherland, Mooney. *Class III.*—Leonard, Miner, McWilliam, Gillies, MacCarthy, Cockshutt; Fraser and Turnbull, equal.

DESCRIPTIVE GEOMETRY.

SECOND YEAR.—*Class I.*—Lea and McLachlan, equal; Clawson, Bell, Brennan, Piers. *Class II.*—Durland; Brunner and Forbes and Pedley, equal; Burnett and Sharp and Walker, equal; Dickenson and Loudon, equal. *Class III.*—Kirkpatrick; Black and Blackader and Cattanach and Jackson, equal; Brady and Cram, equal; Benedict; Turley and Wheaton, equal; Corrigan; Anderson and Ross and Tupper, equal; Wickware, Boyd; Cole and McCuaig, equal; Harvie and Purdy, equal; Dickson and Gurd and Harding and Hibbard and McMeekin and Mudge and Pinch, equal.

FIRST YEAR.—*Class I.*—Broidy and Sproule, equal; Lamb and Pringle, equal; Kingston, Brown (S. B.), Griffin; Martin and Miller and Riddell and Shearer, equal; Wright, Hargrave, Holloway, Woodyatt; Blackett and Mulock, equal; Estey and Kenyon, equal; Davis (A. E.), Elliott; Brooks and Davis (G. H.) and Hay and Macaulay and Trimingham and Wilson, equal. *Class II.*—Hall and Patterson, equal; Haskell, Mulligan, Williams, McCuaig (D. R.); Little and Lynch and Perry and Werner, equal; Black and Foster, equal; Richards (E. L.), Westland, Callaghan, Gamble, Mather, Beaudry, McCuaig (S.), Hepburn, Engel, MacKay (E. G.), Allan; Filer and Matthews, equal; Carlyle; Beaton and Macdonald and Robinson and Whitcomb, equal. *Class III.*—Cantley; Brown (L. O.) and Grahame (D. F.), equal; Maxwell, Drummond, Morrow, Rogers, Moyse, Otty, MacKinnon; Beckwith and Haughton, equal; Phillips; Robb and Rolland, equal.

DESIGNING.

FOURTH YEAR.—(*Civil Engineering Course.*)—*Class I.*—Blanchard and Blumenthal and Harvey, equal; Lawrence, Lambart, Haffner, Osler, Lucas. *Class II.*—Healy. (*Electrical Engineering Course.*)—*Class I.*—Brown, McKay; Gale and McDougall, equal; Cardew and Dutcher and Scott, equal. *Class II.*—Cole and McCloskey, equal; Peaslee; Wenger and Wurtele, equal. *Class III.*—Devlin and Marrotte, equal. (*Mechanical Engineering Course.*)—*Class I.*—Chaplin, Drysdale. *Class II.*—Wilkes, Kemp. *Class III.*—Greey. (*Mining Engineering Course.*)—*Class I.*—McPhee and Parlee, equal; Carlyle. *Class II.*—Richards, Davis; Campbell and Chambers, equal; Taylor; Atkinson and Wilson, equal. *Class III.*—Grice, Cameron, McMurtry, Webster, Sullivan, Deyell.

Passed Special Course.—*Class I.*—Jennings.

DYNAMICS OF MACHINES.

FOURTH YEAR.—*Class I.*—Drysdale, Kemp, Chaplin. *Class II.*—Greey. *Class III.*—Wilkes.

THIRD YEAR.—*Class I.*—MacMillen and McLeish and Sutherland, equal; Cropper, Wheaton; Burpee and Scouler, equal; Redpath, Boyle; Cockshutt and Leonard, equal; Bray and Harris, equal; Glassco, Miner; McLean and Willard, equal. *Class II.*—Drinkwater and Mundy, equal; Gillies and Wright, equal; MacDermot, Archibald, Bedwell, Mooney; Findlay and Johnstone, equal; Campbell, Ross, Weagant, Bowness; MacCarthy and Turnbull, equal; Cunha. *Class III.*—Joseph and Price, equal; Fullington, Piché, Dickson.

ELECTRIC LIGHTING AND POWER DISTRIBUTION.

FOURTH YEAR.—*Class I.*—Brown, McKay, Cardew. *Class II.*—Gale, McDougall, Peaslee, Blatch; Cole and Scott, equal. *Class III.*—McCloskey, Wenger, Roffey, Würtele, Dutcher, Marrotte.

ELECTRICAL MEASUREMENTS.

THIRD YEAR.—*Class I.*—McLeish, Boyle, Harris, Archibald. *Class II.*—Scouler, Cropper, Willard; Drinkwater and McLean, equal; Burpee, Redpath; Findlay and MacDermot and Weagant, equal. *Class III.*—Dickson and Glassco, equal; Bowness, Wright; Johnstone and Wheaton, equal; Mundy and Piché, equal; Campbell, Ross, Bray, Fullington, Cunha, *Joseph, *Bedwell.

ELECTRIC TRACTION.

FOURTH YEAR.—*Class I.*—Brown and McDougall, equal; McKay Cardew and Gale, equal. *Class II.*—Cole, Wenger; Peaslee and Würtele, equal; McCloskey and Scott, equal. *Class III.*—Robinson, Dutcher, Marrotte.

ENGLISH COMPOSITION.

FIRST YEAR.—(In alphabetical order.)—Allan, Archibald (H. M.), Beaton, Beaudry, Beckwith, Black, Blackett, Broidy, Brooks, Brown (L.O.), Brown (S.B.), Callaghan, Cantley, Carlyle, Curry, Daly, Davis (A.E.), Davis (G.H.), Drolet, Drummond, Elliott, Ellis, Engel, Estey, Eveleigh, Fetterly, Filer, Forbes, Foster, Gamble, Gaunt, Gillis, Griffin, Hall, Halliday, Hamel, Hargrave, Haskell, Haughton, Hay, Hepburn, Holloway, Howe, Jardine, Jordan, Kenyon, Kiely, Kingston, Lamb, Little, Lynch, Macaulay, Macdonald, Mackay, MacKinnon, Martin, Mather, Matthews, Maxwell, McCallum, McCuaig, (D.R.), McCuaig (S.), Millen, Miller, Montgomery, Morrison, Morrow, Moyse, Mulligan, Mulock, Mussell, Nelson, O'Sullivan, Otty, Patterson, Perry, Phillips, Porteous, Prevost, Pringle, Racey, Renaud, Richards (E.L.), Richards (W. A.), Riddell, Robb, Robinson, Rogers, Scovil, Shearer, Spafford, Sproule, Strachan, Strumbert, Trimingham, Werner, Westland, Whitcomb, Williams, Wilson, Woodyatt, Wright, Zimmerman.

ENGLISH SUMMER READING.

SECOND YEAR.—*Class I.*—Jackson, Bell; Brown and Cole, equal; Forbes. *Class II.*—Walker, Hadley, McCuaig, Norton, Tupper, Conway, Hibbard, McDonald (H. F.), McMeekin. *Class III.*—Scott; Grier and Turley, equal; Pickard; Pedley and Presner, equal; Cram and Leonard and Loudon, equal; Blackader and Boyd and Kirkpatrick and MacKay (R. M.), equal; Frith and Howell and Mudge, equal; Cattanach; Ryan and Sharp, equal; Jones; Brady and Gurd and Jardine, equal; Ewens and Harvie (J.) and MacKay (G. W.) and MacKinnon and Winter, equal; McLachlan and Taylor, equal; Anderson and Baylis and Benedict, equal.

FREEHAND DRAWING.

SECOND YEAR.—(Architectural Course.) *Class III.*—Blackader.
FIRST YEAR.—*Class I.*—Mulock; Beaudry and Moyse, equal; Gamble and Pringle, equal; Racey and Williams, equal; Hay and Sproule, equal; Brooks and Brown (S. B.) and Elliott, equal; Macdonald; Archibald (E. M. B.) and Blackett and Davis (G.

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* *To pass Supplemental in paper.*

H.) and Grahame (D.F.) and Griffin and Kingston and Riddell and Werner and Westland and Whitcomb, equal. *Class II.*—MacKay (E. G.) and Wilson, equal; Callaghan and Otty and Shearer and Strachan, equal; Macaulay; Filer and Forbes and Lynch and Patterson and Woodyatt, equal; Drummond and Halliday and Lamb, equal; Archibald (H. M.) and Morrison, equal; Maxwell and Mulligan, equal; Robinson; Cantley and Eveleigh and Trimingham, equal. *Class III.*—Gillis; Broidy and Engel and McCuaig (D. R.) and Miller, equal; Beaton and Hall and Martin and Porteous and Wright, equal; Fetterly; Allan and Brown (L. O.) and Hepburn and Mather and Richards (W. A.), equal; Davis (A. E.) and Estey and Stephen and Strumbert, equal; Halloway and Phillips, equal; Carlyle and Ellis and Foster and Hargrave, equal; Beckwith and Black and Drolet and Perry and Rogers and Simard, equal; Curry and Haskell and Haughton and Little and MacKinnon and McCuaig (S.) and Millen and Richards (E. L.), equal.

GAS ANALYSIS.

FOURTH YEAR.—*Class I.*—Johnson and Spencer, equal; *Class II.*—LeMaistre, MacNaughton.

GEODESY.

FOURTH YEAR.—*Class I.*—None. *Class II.*—Blumenthal, Lawrence, Harvey, Blanchard, Osler. *Class III.*—Lucas, Haffner, Lambart, Jennings.

GEOLOGY.

THIRD YEAR.—*Class I.*—Dickinson. *Class II.*—Fyshe, Kydd, Jewett, Hogan, Forbes. *Class III.*—Hamilton (A. M.), Blanchet, Sharpe, McIntosh, Jost; Hamilton and Idsardi and Martin, equal.

GRAPHICAL STATICS.

FOURTH YEAR.—*Class I.*—Blanchard and Blumenthal and Haffner and Harvey and Lambart and Lawrence and Lucas and Osler, equal. *Class II.*—Healy.
(Special Course.) *Class I.*—Jennings.
THIRD YEAR.—*Class I.*—Glassco, Johnstone, Willard, Wright, Boyle; Cropper and Fyshe, equal; Miner; Hogan and Kydd and MacCarthy and MacDermot, equal. *Class II.*—Fullington and Leonard and Livingston and Sutherland, equal; Cockshutt and McLeish, equal; MacMillen; Jewett and Piche, equal; Jost Ross, Turnbull; Burpee and Findlay, equal; Fraser and Joseph, equal; Hamilton (W.) and Idsardi, equal; Blanchet and Bowness and McLean and Scouler and Wheaton, equal; Harris; Eaton and Redpath, equal; Drinkwater and Mundy, equal; Archibald. *Class III.*—Sharpe and Price, equal; Forbes; Bray and Campbell and McIntosh, equal; Mooney and Weagant, equal; Moffat, Cunha, Dickson, Gillies, Gibbs, Martin.

HYDRAULICS.

FOURTH YEAR.—(Full Course.)—*Class I.*—Greey; Cole and Lawrence, equal; Blumenthal. *Class II.*—Blanchard, Harvey; Cardew and Lucas and Wenger, equal; Drysdale and McDougall, equal; Jennings; McCloskey. *Class III.*—Lambart and Wilkes and Haffner, equal; Osler and Peaslee, equal; Dutcher; Marrotte and Scott, equal; Chaplin; Chambers and Wilson, equal; Healy and Kemp and Wurtele, equal. (*Partial Course.*) *Class I.*—

Grice. *Class II.*—McPhee and Richards, equal; Sullivan; Carlyle and Taylor and Webster, equal. *Class III.*—Cameron; Atkinson and Deyell, equal; Campbell and Devlin and McMurtry, equal; Davis, Parlee.

HYDRAULIC MACHINERY.

FOURTH YEAR.—*Class I.*—Cardew, McPhee, Cole, Blumenthal, McDougall; Gnaedinger and Grice and Haffner, equal; Greey and Wurtele, equal. *Class II.*—Drysdale and Lawrence and Webster, equal; Richards; Chaplin and Kemp, equal; Harvey; Lambart and Wenger, equal; McCloskey and Taylor, equal; Peaslee, Parlee; Carlyle and Marrotte and Wilson, equal; Blanchard and Dickinson, equal; Healy; Dutcher and Wilkes and Jennings, equal. *Class III.*—Osler and Sullivan, equal; Campbell, Scott; Atkinson and Deyell, equal; Davis and McMurtry, equal; Lucas, Rodger, Devlin, Chambers, Cameron.

KINEMATICS OF MACHINES.

SECOND YEAR.—*Class I.*—Durland, Lea. *Class II.*—Brennan, Walker, Loudon; Jackson and Kirkpatrick, equal; Gurd and Harvie (J.), equal; Hibbard, Turley. *Class III.*—Ross and Taylor, equal; Beaubien and Black and Purdy, equal; Cram, Brady, Corrigan, Skelton; Mudge and Presner, equal.

LABORATORIES.

FOURTH YEAR.—(*Chemical Laboratory.*)—(*Chemistry Course.*)—*Class I.*—Johnson, LeMaistre. (*Mining Engineering Course.*)—*Class I.*—McPhee and Parlee, equal. *Class II.*—Chambers and Richards, equal; Grice, McMurtry. *Class III.*—Davis, Campbell, Webster, Taylor, Carlyle, Deyell, Cameron, Sullivan, Atkinson, Wilson.

FOURTH YEAR.—(*Organic Chemical Laboratory.*)—*Class I.*—MacNaughton, Spencer.

FOURTH YEAR.—(*Physical Chemical Laboratory.*)—*Class I.*—Johnson, and Spencer, equal; LeMaistre.

FOURTH YEAR.—(*Electrical Engineering Laboratories.*)—*Class I.*—Scott and Wenger, equal; Robinson. *Class II.*—McDougall, Cardew; Brown and Dutcher and Gale and McKay, equal; Wurtele, Cole, Roffey. *Class III.*—McCloskey; Marrotte and Peaslee, equal; Devlin.

THIRD YEAR.—(*Electrical Engineering Laboratories.*)—(*Electrical Engineering Course.*)—*Class I.*—Cropper and MacDermot and Willard, equal; Boyle and Burpee, equal; Campbell and Mundy and Fullington, equal. *Class II.*—Glassco and Findlay and Scouler, equal; McLeish; Archibald and Bowness and Wright, equal; Bedwell and Ross, equal. *Class III.*—Drinkwater and Harris and Johnstone, equal; Price and Weagant and Wheaton, equal; Joseph; Piché and Cunha, equal; Dickson and Redpath, equal; Bray and Eaton and McLean, equal. (*Mechanical Engineering Course.*)—*Class I.*—Gillies. *Class II.*—MacMillen and Sutherland, equal; Gibbs and Leonard, equal; Cockshutt, Miner. *Class III.*—Turnbull and Mooney, equal; MacCarthy, Fraser.

FOURTH YEAR.—(*Geodetic Laboratory.*)—*Class I.*—Blanchard and Harvey and Lawrence, equal; Osler; Blumenthal and Lambart and Lucas, equal. *Class II.*—Haffner; Healy and Jennings, equal.

FOURTH YEAR.—(*Hydraulic Laboratory.*)—*Class I.*—Chaplin, Greey, Lawrence, Wilkes, Blanchard, Lambart, Wurtele; Harvey and McDougall and Osler, equal; Blumenthal. *Class II.*—Drysdale; Parlee and Wenger, equal; Cardew and Marrotte, equal; Cole and McCloskey and Roffey and McPhee, equal; Campbell and Grice and Healy, equal; Devlin; Chambers and Dutcher and Haffner and Richards, equal; Kemp; Atkinson and Lucas and Scott, equal; Peaslee, Wilson; Carlyle and Dickinson, equal; Sullivan. *Class III.*—Gnaedinger; Davis and Deyell and Taylor, equal; Webster, McMurtry, Cameron.

FOURTH YEAR.—(*Mechanical Engineering Laboratory.*)—(*Electrical Engineering Course.*)—*Class I.*—Cole, Cardew, McDougall. *Class II.*—Wurtele, Wenger; Dutcher and McCloskey and Peaslee, equal. *Class III.*—Marrotte; Devlin and Roffey and Scott, equal. (*Mechanical Engineering Course.*)—*Class I.*—Chaplin. *Class II.*—Kemp; Drysdale and Greey, equal. *Class III.*—Wilkes.

FOURTH YEAR.—(*Mining and Metallurgical Laboratories.*)—*Class I.*—Carlyle, Parlee, McPhee, Grice. *Class II.*—Campbell, McMurtry, Chambers, Richards, Davis, Gnaedinger, Taylor, Wilson, Deyell, Atkinson. *Class III.*—Cameron, Webster, Sullivan.

SECOND YEAR.—(*Physical Laboratory.*)—(*Architectural Chemistry.Civil, Mechanical Metallurgical and Mining Course.*—*Class I.*—Jackson and McLachlan, equal; Bell and Piers, equal; Brown (W. G.) and Lathe and McCuaig, equal; Benedict and Harvie (R.), equal; Pickard; Brunner and Clawson and Presner, equal; Howell and Kirkpatrick, equal. *Class II.*—Sharp; Brady and McMeekin and Pedley, equal; Baylis and Black and Cole and Dickson, equal; Cowen and Harding and Ralph and Taylor and Turley, equal; Brown (W G. B.) and Burnett and Hadley and Jones and Loudon and McDonald (H. F.) and Newton and Norton, equal; Anderson and Blackader and Shorey and Slater and Wickware, equal; Davidson. *Class III.*—Dickenson, Winter, Conway, Greenshields. (*Electrical Engineering Course.*)—*Class I.*—Dougherty; Durland and Forbes, equal; Gurd and Lea and Mudge and Ross and Walker, equal; Brennan; Beaubien and Boyd and Harvie (J.), equal; Corrigan and Hibbard and MacKay and Scott and Tupper, equal; Leonard and Slavin, equal; Macdonald (R. R.); McWilliam and Purdy, equal. *Class II.*—Cram and Ewens and Roger, equal; Cattanach.

FIRST YEAR.—(*Physical Laboratory.*)—(Alphabetical Order.)—Allan, Archibald (E. M. B.), Archibald (H. M.), Barclay, Beaton, Beckwith, Black, Blackett, Broidy, Brooks, Brown (L. O.), Brown (S. B.), Callaghan, Cantley, Curry, Davis (A. E.), Davis (G. H.), Drolet, Drummond, Edwards, Elliott, Ellis, Engel, Estey, Eveleigh, Fetterly, Filer, Forbes, Foster, Gamble, Gillis, Gilmour, Griffin, Hall, Halliday, Hamel, Hargrave, Haskell, Haughton, Hay, Hepburn, Holloway, Jordan, Kenyon, Kingston, Lamb, Letourneau, Little, Lynch, Macaulay, Macdonald, MacKinnon, Martin, Matthews, Maxwell, McCuaig (D. R.), McCuaig (S.), Miller, Morrison, Morrow, Moyse, Mulligan, Mulock, Otty, Phillips, Pringle, Renaud, Richards (E. L.), Riddell, Robinson, Scovil, Shearer, Sproule, Strachan, Trimingham, Werner, Wes land, Wheaton, Whitcomb, Williams, Wilson, Woodyatt, Wright.

FOURTH YEAR.—(*Testing Laboratory.*)—*Class I.*—Blumenthal; Harvey and Lawrence and Lambart and Haffner, equal. *Class II.*—Healy. (*Special Course*)—*Class I.*—Blanchard; Jennings and Lucas and Osler, equal.

THIRD YEAR.—*(Testing Laboratory)—Class I.*—MacDermot, McLeish, Cropper and Idsardi and Jewett and Scouler and Willard, equal; Bowness and Campbell and Glassco and Harris, equal; Findlay and Kydd, equal. *Class II.*—Boyle and Bedwell and Cunha and Fyshe and Hamilton (W.) and Mooney and Piché and Redpath and Wheaton, equal; Dickson and Forbes and Gibbs and Jost and Leonard and MacMillen, equal; Burpee and Miner and Sutherland and Weagant and Gillies, equal; Bray and Johnstone and Hamilton (A. M.), equal; Archibald and Blanchet and Drinkwater and Joseph and McIntosh and Mundy and Turnbull, equal; Cockshutt and Fraser and Ross, equal; MacCarthy and Wright, equal; Price and Sharpe ,equal; Bain and McLean, equal. *Class III.*—Livingston, Moffat, Eaton, Fullington.

LETTERING.

FIRST YEAR.—*Class I.*—Sproule and Williams, equal; Hay and Lamb, equal; Kingston and Miller, equal; Griffin; Gamble and Shearer, equal; Halliday and Pringle, equal; Cantley and Werner, equal; Brown (S. B.) and Callaghan and Davis (A. E.) and Grahame (D. F.) and Lynch and Wilson, equal. *Class II.*—Whitcomb; Elliott and Kenyon and Richards (E. L.) and Trimingham, equal; Mather; Carlyle and Macaulay and Patterson and Riddell, equal; Beaton and Filer and Forbes and Hargrave and Holloway and Perry and Racey, equal; Blackett and Estey and Hepburn and Macdonald, equal; Engel and MacKay and McCuaig (D. R.) and Woodyatt and Wright, equal; Brooks and Drolet and Eveleigh and Foster and McCuaig (S.) and Rogers, equal; Allan and Westland, equal; Letourneau and Martin, equal. *Class III.*—Little and Morrow and Moyse and Scovil, equal; Gillis and Maxwell and Robinson, equal; Broidy and Davis (G. H.) and Mulock and Otty, equal; Brown (L. O.) and Hall and Spafford and Stephen, equal; Archibald (E. M. B.) and Curry and MacKinnon and Millen and Morrison and Nelson and Simard and Strachan, equal; Drummond and Mussell and Phillips and Porteous, equal; Fetterly and Haskell and O'Sullivan, equal; Black and Hamel and Montgomery and Mulligan, equal; Matthews, Beckwith and Ellis and Zimmerman, equal.

MACHINE DESIGN.

FOURTH YEAR.—*(Electrical Engineering Coure.)—Class I.*—None. *Class II.*—Cole, McCloskey, McDougall, Wenger. *Class III.*—Roffey, Scott, Wurtele; Marrotte and Peaslee, equal; Cardew and Dutcher and Rodger, equal. *(Mechanical Engineering Course.—) Class I.* None. *Class II.*—Kemp, Drysdale. *Class III.*—Devlin and Dutcher and Rodger, equal. *(Mechanical Engineering Course)—Class I.*—None. *Class II.*—Kemp, Drysdale. *Class III.*—Wilkes, Chaplin, Greey.

THIRD YEAR.—*(Electrical and Mechanical Engineering Courses.)—Class I.*—Cropper, Leonard, Willard. *Class II.*—MacMillen, Redpath, Wheaton; Archibald and Drinkwater, equal; Boyle and Findlay, equal; Glassco and McLeish and Scouler, equal; Gillies and Sutherland, equal. *Class III.*—Mooney, Ross, Harris Johnstone; Campbell and MacDermot and Piche and Wright, equal; Weagant; Burpee and McLean, equal; Cunha and Miner, equal; Bowness; Cockshutt and Pinch, equal; Dickson and Mundy, equal. *(Mining Engineering Course.)—Class I.*—Forbes. *Class II.*—None. *Class III.*—Martin, Sharpe, Blanchet.

MAPPING.

THIRD YEAR.—*(Civil Engineering Course)—Class I.*—Fsche and Jewett and Jost, equal. *Class II.*—Idsardi and Kydd, equal; Hamilton

(W.) and McIntosh, equal. (*Mining Engineering Course*)—*Class I.*—Forbes, Livingston, Sharpe. *Class II.*—Ritchie, Blanchet.

SECOND YEAR.—(*Civil Engineering Course*)—*Class I.*—Bell, Anderson. *Class II.*—McLachlan, Clawson; Brunner and Piers, equal; McCuaig, Pedley, Pickard. *Class III.*—Baylis and Newton, equal; Hadley, McDonald. (*Mining Engineering Course*)—*Class I.*—Cole; Dickenson and Sharp, equal. *Class II.*—Harding, Howell, Brown (W. G. B.). *Class III.*—McMeekin and Winter, equal; Cuaig (D. R.) and Woodyatt and Wright, equal; Brooks and Gillie, Cowen, Slater, Dickson, Burnett, Ralph, Wickware.

MATHEMATICS.

THIRD YEAR.—(*Calculus, etc.*) *Class I.*—Glassco, MacDermot, Wright, Boyle, Forbes, McLeish, MacMillen; Cropper and Scouler, equal. *Class II.*—Willard, Bowness, Fyshe, Jewett; Cunha and Livingston and Weagant, equal; Sutherland; Archibald and Drinkwater and Harris and McLean, equal; Kydd; Cockshutt and Miner, equal. *Class III.*—Findlay; Bedwell and MacCarthy and Wheaton, equal; Blanchet and Mooney and Piché, equal; Joseph and Jost and Leonard and Sharpe, equal; Bray and Turnbull, equal; Johnstone; Burpee and Eaton and Fraser and Hamilton (W.) and Martin and McIntosh and Mundy and Ross, equal. (*Mechanics.*) *Class I.*—Boyle and MacDermot, equal; Harris; Drinkwater and Forbes and Weagant, equal; Willard; Jewett and Leonard, equal. *Class II.*—Redpath; Bowness and Fyshe and MacMillen, equal; Glassco; McLeish and Turnbull, equal; Cunha; Archibald and Scouler, equal; Cropper and Johnstone, equal; McLean and Sutherland. *Class III.*—Burpee, Wright, Cockshutt; Gillies and Jost and Kydd and Mooney and Piché, equal; Wheaton, Miner, Price; Campbell and Findlay and Hogan and Mundy, equal.

SECOND YEAR.—(*Analytical Geometry.*) *Class I.*—Bell and Lea, equal; Piers, Walker, Killam; Brennan and Burland and McLachlan, equal. *Class II.*—Jackson; Forbes and Wickware, equal; Brady and Ewens and McMeekin, equal; Jones; Anderson and Newton, equal; Cattanach and Kirkpatrick, equal. *Class III.*—Howell and Sharp, equal; Mudge and Tupper and Turley, equal; Black and Harding and Ralph, equal; Hibbard and Higgins and Ross, equal; Winter, Pedley; MacKay (R. M.) and McWilliam, equal; Norton, Conway; Brunner and Clawson and Pinch and Spencer, equal; Harvie (J.), Loudon; Blackader and Cram and McCuaig, equal; Beaubien and Dickenson, equal; Benedict and Scott and Slavin, equal; Barclay and Gurd and Harvie (R.), equal; Boyd and Davidson and Gillis and Taylor, equal. (*Calculus.*) *Class I.*—Bell and Piers, equal; Wickware, Pedley, Lea, McLachlan, Walker. *Class II.*—Sharp, Barclay, Clawson, Burnett. *Class III.*—Kirkpatrick, Purdy, Brennan, Durland, Ewens, Winter; Black and Jackson, equal; Norton and Tupper, equal; Higgins and Mudge and Ross, equal; McCuaig; Anderson and Kitchie, equal; Howell, McMeekin; Harvie (R.) and Jones, equal; MacKay (R. M.) and McDonald (H. F.), equal; Beaubien and Hibbard and McWilliam and Spencer, equal. (*Mechanics.*) *Class I.*—Bell, Lea. *Class II.*—Anderson and Piers, equal; Pedley, Brennan, Cram, Jones, McLachlan and Sharp, equal; Brunner and Burnett and Gurd, equal; Forbes; Clawson and Purdy, equal; Durland and Jackson and Wickware, equal. *Class III.*—Blackader; Beaubien and Harvie (J.), equal; Walker; Boyd and Brady and Kirkpatrick, equal; Ewens and McMeekin, equal; Benedict and Corrigan and Hibbard and Roger and Skelton and Spencer, equal; McWilliam, Turley; Harding and Higgins and Newton

and Taylor, equal; Pickard and Presner and Ross and Tupper, equal; Loudon; MacDonald (R. R.) and Mudge, equal; Black; Hadley and Harvie (R.) and Norton and Pinch and Winter, equal.

First Year.—(*Algebra.*) *Class I.*—Kingston and Lamb, equal; Pringle, Griffin, Broidy, Kenyon, Wright; Brooks and Holloway equal; Westland. *Class II.*—Macaulay (F. R.); Mulock and Riddell, equal; Angel; Whitcomb and Wilson, equal; Blackett, Elliott, equal; Black, Hall, Miller; Brown (S. B.) and Morrow, equal; Estey and Fetterly, equal; Foster; McCuaig (D. R.) and Williams, equal; Macaulay (R. M.) and Martin and Sproule and Trimingham, equal; Brown (L. O.) and Hay and Wheaton, equal; Davis (G. H.); Callaghan and Robinson, equal; Shearer. *Class III.*—Allan and Beaton and Hargrave, equal; Maxwell, Gamble; Hepburn and Woodyatt, equal; Ellis; Davis (A. E.) and Howe and Racey, equal; Haskell and Little, equal; Montgomery; Otty and Scovil, equal; Patterson (R.H.) and Werner, equal; Daly and Richards (E. L.), equal; Eveleigh and MacKay and Mulligan and Zimmerman, equal; Lynch and MacKinnon and Moyse and Renaud, equal. (*Dynamics.*) *Class I.*—Lamb, Broidy, Pringle, Kenyon, Blackett; Kingston and Macaulay (F. R.), equal; Brooks. *Class II.*—Sproule, Brown, (S. B.), Mulock and Whitecomb, equal; Hargrave; Elliott and Riddell, equal; Macaulay (R. M.) and Martin and Shearer and Wright, equal; Davis (A. E.) and Miller, equal; Williams, Patterson (R. H.), Griffin. *Class III.*—Hall, Brown (L. O.); Westland and Wheaton, equal; Foster and Howe and Trimingham, equal; Carlyle, Woodyatt; Maxwell and Wilson, equal; Haskell; Davis (G. H.) and Richards (E. L.), equal; Estey; Holloway and McCuaig (S.) and Otty, equal; Allan and Beaton and Callaghan and Daly and Filer and MacKay, equal; Engel and Hay, equal. (*Geometry.*) *Class I.*—Lamb; Broidy and Wright, equal; Kingston, Blackett, Riddell, Wheaton. *Class II.*—Pringle; Foster and Macaulay, equal; Sproule, Holloway; Brown (S. B.) and Griffin and McCallum, equal; Elliott, Kenyon; Brooks and Martin, equal; Davis (G. H.) and Hargrave and McCuaig (D. R.), equal; Black; Little and McCuaig (S.), equal; Beaudry; Eveleigh and Trimingham, equal. *Class III.*—Hall and Shearer, equal; Hay and Miller, equal; Haskell and Maxwell and Westland and Wilson, equal; Davis (A. E.), Allan, Williams, Beaton; Ellis and MacKay and Richards (E. L), equal; Howe; (c) Brown (L. O.) and Estey and Haughton and Macdonald, equal; Whitcomb; Gamble and Hepburn and Werner, equal; Archibald (E. M. B.) and Gaunt and (b) Otty and Woodyatt, equal; Fetterley and Morrow, equal; (a) Daly and (c) Kiely, equal; (c) Callaghan and Engel and (c) Mulock and Scovil and Rolland, equal. (*Trigonometry.*) *Class I.*—Lamb and Pringle, equal; Kenyon and Riddell, equal; Broidy and Miller, equal; Kingston, Wright, Wheaton, Elliott. *Class II.*—Patterson (R. H.) and Westland, equal; Brooks, Trimingham, Davis (G. H.), Whitcomb; Black and Mulock, equal; Hall; Holloway and Shearer and Williams and Woodyatt, equal; Foster; Allan and Macaulay (R. M.) and Martin, equal; Brown (L. O.) and Estey and Griffin and McCuaig (D. R.), equal; Blackett and Engel, equal. *Class III.*—Robinson and Wilson, equal; Gamble; Davis (A. E.) and Maxwell, equal; Hargrave and Little and Spafford, equal; Brown (S. B.) and Haughton and Hay, equal; Beaton and Callaghan, equal; Racey, Hepburn; Eve-

(*a*) *Supplemental in Plane.*
(*b*) *Supplemental in Solid.*
(*c*) *Supplemental in Conics.*

leigh and Morrow, equal; McCuaig (S.) and Mulligan, equal; Renaud, Montgomery; Richards (E. L.) and Sproule, equal; Daly and MacKinnon, equal; Howe, Simard; Jardine and Macaulay (F. R.), equal.

MECHANICAL DRAWING.

THIRD YEAR.—(*Electrical and Mining Engineering Courses.*)—*Class I.*—MacDermot, Cropper, Willard; McLeish and Weagant, equal. *Class II.*—Archibald and Dickson and Johnstone and McLean and Wheaton, equal; Cunha; Boyle and Burpee and Redpath and Scouler and Wright, equal; Bowness and Campbell and Fullington and Harris and Forbes, equal; Glassco and Ross and Blanchet and Sharpe, equal; Drinkwater and Higgins, equal; Bray and Findlay, equal; Joseph and Ritchie, equal. (*Mechanical Engineering Course.*)—*Class I.*—Turnbull; Eadie and Sutherland, equal; MacCarthy; MacMillen and Pinch, equal. *Class II.*—Cockshutt and Gillespie and Leonard and Mooney, equal; Miner; Barclay and Moffat, equal; Gibbs.

SECOND YEAR.—(*Electrical and Mining Engineering Courses.*)—*Class I.*—Cole, Brennan. *Class II.*—Harvie (J.) and Lea and Mudge, equal; Chambers and Ewens and Harding and Leonard, equal; Dickenson; Beaubien and Cram, equal; Corrigan and Durland, equal; Hibbard and Sharpe, equal, Dougherty and Howell and McMeekin and Scott and Wickware, equal; Cattanach and Forbes, equal; Burnett and Dickson and Tupper and Wheaton, equal; Boyd and Roger and Walker, equal. *Class III.*—Winter; Cowen and Gillis and Macdonald (R. R.), equal; Purdy, Jardine; Brown W. G. B.) and Slater, equal; Gurd and Ralph, equal. (*Mechanical Engineering Course.*)—*Class I.*—Brady, Black, Kirkpatrick. *Class II.*—Loudon; Benedict and Skelton, equal; Jackson, Presner, Norton, Taylor, Turley.

MECHANICAL ENGINEERING.

FOURTH YEAR.—(*Civil, Electrical and Mining Engineering Courses.*)—*Class I.*—Grice; Blanchard and Peaslee, equal; Blumenthal and McDougall, equal. *Class II.*—Robinson; Davis and Dickinson, equal; Cardew and Taylor, equal; Cole and McPhee and Scott, equal; Chambers; Lawrence and McCloskey, equal; Dutcher and Webster, equal. *Class III.*—Gnaedinger and Richards, equal; Carlyle, Cameron; Haffner and Parlee, equal; Marrotte and Wurtele equal; Atkinson and Lucas, equal; Devlin and Harvey and Roffey equal; Sullivan and Wenger, equal; McMurtry, Wilson, Deyell; Campbell and Lambart, equal; Osler. (*Mechanical Engineering Course*).—*Class I.*—Chaplin. *Class II.*—Kemp, Drysdale, Wilkes. *Class III.*—Greey.

METALLURGY.

THIRD YEAR.—(*Class I.*—None. *Class II.*—Forbes, Sharpe; Churchill and Wilson (A. W. G.), equal. *Class III.*—Livingston and Ritchie equal; Martin and Hamilton (A. M.), equal; Blanchet.

METALLURGY (COPPER, LEAD, GOLD AND SILVER).

FOURTH YEAR.—*Class I.*—None. *Class II.*—Webster, Grice; Parlee and McPhee, equal; Campbell, Taylor; Dickinson and Deyell and McMurtry, equal. *Class III.*—Chambers and Richards, equal; Carlyle; Gnaedinger and Sullivan, equal; Davis, Atkinson, Wilson, Cameron.

METALLURGY (IRON AND STEEL).

FOURTH YEAR.——*Class I.*—Grice. *Class II.*—Campbell and McPhee, equal; Webster, Chambers; McMurtry and Gnaedinger and Richards and Taylor, equal; Parlee. *Class III.*—Sullivan, Carlyle; Cameron and Davis, equal; Deyell and Wilson, equal.

METALLURGY (ZINC, NICKEL AND ALUMINIUM).

FOURTH YEAR.—*Class I.*—Grice, Campbell; Deyell and Richards, equal. *Class II.*—Dickinson and McPhee, equal;. Carlyle and Davis and McMurtry, equal; Parlee and Webster, equal; Cameron and Taylor, equal. *Class III.*—Atkinson and Sullivan, equal.

MINERAL CHEMISTRY.

FOURTH YEAR.—*Class I.*—Johnson, LeMaistre.

MINERALOGY.

FOURTH YEAR.—(*Chemistry Course*)—*Class I.*—Johnson, Spencer. *Class II.*—LeMaistre. (*Mining Engineering Course*)—*Class I.*—Grice, Parlee. *Class II.*—McPhee, McMurtry, Carlyle; Cameron and Wilson, equal; Deyell and Gnaedinger and Sullivan, equal; Campbell and Chambers, equal. *Class III.*—Davis, Taylor; Dickinson and Richards, equal; Atkinson and Webster, equal.

THIRD YEAR.—*Class I.*—None . *Class II.*—Forbes, Hamilto n(A.M.). *Class III.*—Martin, Sharpe.

MINERALOGY (DETERMINATIVE).

THIRD YEAR.—*Class I.*—None. *Class II.*—Forbes, Hamilton (A. M.). *Class III.*—Martin, Blanchet.

MINING.

FOURTH YEAR.—*Class I.*—McPhee, Parlee, Carlyle. *Class II.*—Sullivan and Webster, equal; McMurtry, Atkinson, Taylor. *Class III.*—Cameron and Chambers and Richards, equal; Grice, Campbell; Davis and Deyell and Gnaedinger, equal; Wilson, Dickinson.

THIRD YEAR.—*Class I.*—Sharpe, Forbes. *Class II.*—Ritchie, Martin, Blanchet.

MINING COLLOQUIA.

FOURTH YEAR.—*Class I.*—Dickinson; Carlyle and McPhee, equal; Chambers. *Class II.*—Deyell and Parlee and Taylor, equal; Campbell, Sullivan, Webster. *Class III.*—Richards; Cameron and Davis and Gnaedinger and McMurtry, equal; Atkinson and Grice and Wilson, equal.

MINING MACHINERY.

FOURTH YEAR.—*Class I.* McPhee, Parlee. *Class II.*—Carlyle, McMurtry, Taylor. *Class III.*—Grice; Chambers and Gnaedinger, equal; Richards, Deyell, Campbell; Cameron and Davis and Wilson, equal; Webster, Sullivan.

MODELLING.

SECOND YEAR.—*Class I.*—Blackader. *Class II.*—Shorey.

ORE DEPOSITS AND GEOLOGY.

FOURTH YEAR.—*Class I.*—Grice, McPhee, Dickinson. *Class II.*—Parlee, Webster, Taylor, Carlyle, McMurtry. *Class III.*—Campbell and Chambers, equal; Cameron and Richards and Sullivan, equal; Wilson, Davis, Deyell.

ORE DRESSING.

FOURTH YEAR.—*Class I.*—Parlee, McPhee. *Class II.*—Carlyle, Dickinson, Grice, Richards, Sullivan; Campbell and Taylor, equal. *Class III.*—McMurtry and Webster, equal; Gnaedinger; Cameron and Wilson, equal; Atkinson, Deyell, Chambers, Davis.
THIRD YEAR.—*Class I.*—Sharpe, Hamilton (A. M.). *Class II.*—Ritchie, Forbes. *Class III.*—Martin, Blanchet.

PERSPECTIVE.

THIRD YEAR.—*Class I.*—Fyshe, Jewett. *Class II.*—Jost and Kydd, equal; McIntosh. *Class III.*—Hogan, Idsardi, Hamilton (W.).

PETROGRAPHY.

FOURTH YEAR.—*Class I.*—Grice. *Class II.*—Davis and Dickinson, equal; Campbell, McPhee; Cameron and McMurtry and Taylor, equal; Sullivan and Webster, equal; Chambers and Parlee, equal; Deyell. *Class III.*—Atkinson and Wilson, equal; Carlyle, Richards.

PRACTICAL GEOLOGY AND PHYSIOGRAPHY.

FOURTH YEAR.—*Class I.*—McPhee, Chambers, Grice, Parlee. *Class II.*—Wilson, Carlyle; Atkinson and Cameron and Richards, equal; Deyell and Gnaedinger and Sullivan and Taylor, equal; Campbell and Webster, equal. *Class III.*—McMurtry, Dickinson, Davis.

PHYSICS.

SECOND YEAR.—(*Electricity and Magnetism.*)—*Class I.*—Lathe, Bell; Jones and Walker, equal; Brown (W. Gordon) and Lea, equal; Brunner, Forbes, Piers, Purdy, Blackader. *Class II.*—Hibbard; Kirkpatrick and Winter, equal; Clawson, Ross; Anderson and Black and Loudon and McLachlan and McWilliam, equal; Cram; Gurd and Ritchie and Sharp, equal; Tupper; Durland and Roger, equal. *Class III.*—Burnett and Corrigan, equal; Boyd and Cattanach and Pedley, equal; Scott; Brennan and Dickenson and Harvie (J.), equal; Jackson and Pickard and Turley, equal; Beaubien and Cowen and McMeekin, equal; Leonard; Barclay and Dougherty and Harding, equal; Ewens and Presner, equal; Benedict and Macdonald (R. R.), equal; Davidson and Mudge and Norton and Slater, equal; Brown (W. G. B.) and Cole, equal; Hadley and Harvie (R.) and McCuaig and Wickware, equal; Newton, Howell; Baylis and Brady, equal; Gillis and Skelton, equal. (*Special Course, Electrical Engineering Course*)—*Class I.*—Beaubien and Durland, equal; Lea, Brennan, Walker, Forbes. *Class II.*—Gurd, Mudge, Hibbard, Scott; Boyd and Slavin, equal; Corrigan and Harvie (J.), equal; Dougherty; Ross and Tupper, equal. *Class III.*—Purdy, MacKay (R. M.), Cram, Ewens, Roger, Macdonald (R. R.).

FIRST YEAR.—(*Sound, Heat and Light.*)—*Class I.*—Lamb, Kingston, Broidy, Miller, Kenyon, Holloway; Blackett and Brown (S.B.) and Pringle, equal. *Class II.*—Elliott, Riddell; Mulock and Sproule, equal; Davis (G. H.) and Hargrave and Shearer, equal; Wheaton and Whitcomb, equal; Callaghan and Wer-

ner, equal; Davis (A. E.) and Fetterley and Westland and Williams and Wright, equal; Gamble; Brown (L. O.) and Griffin and Hall and Martin, equal; McCuaig (D. R.) and Wilson, equal; Beaton; Allan and Brooks and Hepburn and Patterson and Trimingham, equal; Woodyatt, Foster. *Class III.*—Morrow, Hay, McCuaig (S.), Black; Morrison and Mulligan, equal; Beaudry and Estey and Haskell and Robinson, equal; Ellis; Haughton and Lynch, equal; Little and Maxwell, equal; Beckwith and Cantley, equal; Hamel and Renaud, equal; Moyse and Phillips, equal; Macaulay; MacKinnon and Matthews, equal; Daly and Otty and Richards (E. L.) and Scovil, equal; Barclay and Carlyle and Engel and Macdonald, equal.

QUALITATIVE ANALYSIS.

THIRD YEAR.—(*Chemistry Course.*)—*Class I.*—Robertson. (*Metalurgical Course.*)—*Class I.*—Hamilton (A. M.). (*Mining Engineering Course.*) *Class I.*—Martin. *Class II.*—Forbes, Ritchie, Sharpe. *Class III.*—Blanchet.

ROADS AND RAILROADS.

FOURTH YEAR.—*Class I.*—Lawrence; Blumenthal and Harvey, equal. *Class II.*—Haffner and Lucas, equal. *Class III.*—Osler, Lambart, Blanchard, Jennings.

THIRD YEAR.—*Class I.*—Kydd. *Class II.*—Jewett, Fyshe. *Class III.*—Hogan, Jost, Idsardi.

SHOPWORK.

FOURTH YEAR.—*Class I.*—Chaplin and Drysdale, equal; Kemp and Wilkes, equal. *Class II.*—Greey.

THIRD YEAR.—(*Electrical Engineering Course.*)—*Class I.*—Burpee and Johnstone, equal; Higgins and Pinch and Wheaton, equal; Bowness; Drinkwater and Redpath and Willard, equal; Findlay and Price and Harris, equal. *Class II.*—Cunha and Dickson (G. L.), equal; Bain and Bray and Glassco, equal; Cropper and Eaton and MacDermot and Mundy and Ross, equal; Archibald and McLeish, equal; Campbell and McLean, equal. *Class II.*—Boyle and Scouler and Wright, equal; Fullington and Joseph and Weagant, equal. (*Mechanical Engineering Course.*)—*Class I.*—Fraser; Sutherland and Turnbull, equal. *Class II.*—Gibbs and Mooney, equal; Leonard and Miner, equal; MacMillen and Moffat, equal; Cockshutt, Eadie and MacCarthy, equal.

SECOND YEAR.—(*Civil and Mining Engineering Courses.*)—*Class I.*—Bell and Dickson (W.) and Skelton, equal; Brunner and Burnett, equal; Newton and Sharp and Wheaton, equal; Brown (W. G. B.) and Carlyle and Clawson and Conway and Howe, equal; Baylis. *Class II.*—Beaudry and McLachlan and McMeekin and Simard and Graham, equal; Cole and McDonald and Pickard and Mathers, equal; Davidson and Dickenson and Hadley and Harding and Howell and McCuaig and Piers and Wickware, equal; Anderson and Daly and Winter, equal; Ryan (F. G.). *Class III.*—Slater. (*Electrical and Mechanical Engineering Courses*).—*Class I.*—Durland and Leonard, equal; Loudon, Brennan; Dougherty and Scott, equal; Black and Walker, equal. *Class II.*—Benedict and Corrigan and Harvie (J.) and Jackson and McWilliam and Ross, equal; Richards and Tupper, equal; Brady and Ewens and Forbes and Gurd and Kirkpatrick and Lea and Macdonald (R. R.) and Mudge and Purdy, equal; MacKay (R. M.) and Presner, equal; Hibbard and Turley, equal; Boyd and Cram and Norton, equal; Cattanach and Haskell and Killam and Taylor, equal; Gaunt. *Class III.*—Slavin.

FIRST YEAR.—*Class I.*—Williams, Pringle, Werner; Elliott and Hepburn and MacKay, equal; Lamb and Shearer, equal; Kingston and Riddell and Sproule, equal. *Class II.*—Halliday and O'Sullivan and Racey and Whitcomb, equal; Broidy and Gillis and Griffin and Richards (E. L.) and Robinson and Westland, equal; Brooks and Brown (S. B.) and Estey and Foster and Hargrave and Hay and Martin and Trimingham and Wilson and Wright, equal; Allan and Black and Blackett and Callaghan and Davis (A. E.) and Drolet and Forbes and Kenyon and Macaulay and Maxwell and Patterson and Phillips and Renaud, equal; Drummond and Ellis and Hall and Haughton and Letourneau and Little and Macdonald and Mulock and Mulligan and Spafford and Stephen and Woodyatt, equal; Beckwith and Edwards and Fetterly and MacKinnon and Matthews and Millen and Strachan, equal; Archibald (H. M.) and Brown (L. O.) and Engel and Hamel and Holloway and Killam and McCuaig (S.) and Miller and Montgomery and Morrison and Morrow, equal; Beaton and Grahame (D. F.) and Moyse and Nelson and Otty, equal; Curry and Davis (G. H.) and Eveleigh and Gilmour and Jordan and Perry and Purdy and Strumbert and Zimmerman, equal; McWilliam. *Class III.*—McCuaig (D. R.) and Porteous, equal; Cantley and Filer and Scovil, equal; Gamble.

STRUCTURAL ENGINEERING.

FOURTH YEAR.—*Class I.*—Blumenthal, Harvey, Lawrence. *Class II.*—Blanchard, Osler. *Class III.*—Jennings, Lucas, Healy, Lambart.
THIRD YEAR.—*Class I.*—Kydd. *Class II.*—Hogan, Jost, Jewett, Fyshe, Idsardi, Hamilton (W.). *Class III.*—McIntosh.

SUMMER WORK (ESSAYS).

FOURTH YEAR.—(*Chemistry Course.*)—*Class I.*—Johnson, Spencer. *Class II.*—LeMaistre. (*Civil Engineering Course.*)—*Class I.*—Harvey; Blumenthal and Lawrence, equal. *Class III.*—Lambart, Healy. (*Electrical Engineering Course.*)—*Class I.*—McDougall, Scott. *Class II.*—Dutcher; Marrotte and McCloskey, equal; Devlin and Peaslee, equal. *Class III.*—Cole; Roffey and Wenger equal. (*Mechanical Engineering Course.*)—*Class I.*—Drysdale; Chaplin and Kemp, equal; Wilkes. *Class II.*—Cardew and Greey, equal.

THIRD YEAR.—(*Civil Engineering Course.*)—*Class II.*—Gibbs and Jewett, equal; Idsardi and Kydd, equal. *Class III.*—Hamilton (S. W.); Churchill and Fyshe and McIntosh and Sharpe, equal. (*Electrical Engineering Course.*)—*Class I.*—Cunha; Cropper and MacDermot, equal; Bowness and Campbell and Eaton, equal. *Class II.*—Burpee; Johnstone and Piché and Scouler, equal; Findlay and Wright, equal; Boyle and Bray and Joseph and Wheaton, equal. *Class III.* Fullington, McLeish; Harris and Weagant, equal. (*Mechanical Engineering Course.*) *Class I.*—Ross, Bain. *Class II.*—Mooney, MacMillan. *Class III.*—Gilespie. (*Mining Engineering Course.*)—*Class I.*—None. *Class II.*—Forbes and Livingston, equal; Martin. *Class III.*—Blanchet, Sharpe.

SURVEYING.

THIRD YEAR.—*Class I.*—Jewett, Forbes, Kydd, Fyshe. *Class II.*—Jost, Livingston, Idsardi. *Class III.*—Hogan and McIntosh, equal; Sharpe and Wilson, equal; Blanchet.

SECOND YEAR.—*Class I.*—Bell, Piers. *Class II.*—Pedley, McLachlan; Anderson and Cole, equal; Burnett, Wickware. *Class III.*—Clawson, Brunner, Baylis, *Harding, Sharp, *Pickard; *Cowen and *Gillis and *Winter; †Newton; *Brown and †Hadley, equal; *Dickenson and *McMeekin, equal.

SURVEYING FIELDWORK.

FOURTH YEAR.—.—*Class I.*—Harvey; Blanchard and Blumenthal and Lawrence, equal. *Class II.*—Lambart and Lucas and Osler, equal; Healy. *Class III.*—Jennings.

THIRD YEAR.—*Class I.*—Jost, Jewett, Fyshe, Kydd, Blanchet, Idsardi, Livingston. *Class II.*—Churchill, Forbes, Belanger, McIntosh, Sharpe. *Class III.*—Ritchie, Hamilton (W.), Young, Hogan. Passed:—Wilson (A. W. G.).

SECOND YEAR.—*Class I.*—Bell, Cole, McCuaig, Dickenson, Anderson and Brown, equal; Hadley; Conway and Howell and Sharp, equal. *Class II.*—Jones and McLachlan, equal; Wickware, McMeekin; Brunner and Gillis, equal; MacKinnon, Dickson, Pedley, Slater, Pickard; Burnett and Simard, equal; Ryan, Newton, Winter. *Class III.*—Clawson and McDonald (H. F.), equal; Harding and Wilson, equal; Lemoine.
Passed:—Baylis and Cowen and Piers.

THEORY OF STRUCTURES.

FOURTH YEAR.—*Class I.*—Blumenthal, Lawrence. *Class II.*—Lucas, Harvey, Blanchard, Osler. *Class III.*—Lambart, Jennings, Haffner.

THIRD YEAR.—*Class I.*—Kydd, McLeish, MacMillen, Boyle, Willard, Leonard; Forbes and MacDermot, equal; Cropper; Bow and Harris, equal; Fyshe and Hogan, equal. *Class II.*—Fullington and Jewett, equal; Archibald and Glassco, equal; Findlay, Redpath; Sutherland and Wright, equal; Mooney, Cunha, Ross, Johnstone; Dickson and Wheaton, equal; Miner, Gillies and Price, equal; Scouler, Fraser. *Class III.*—Burpee and Weagant, equal; MacCarthy; Cockshutt and Drinkwater, equal; Campbell, Sharpe; Blanchet and Jost, equal; McLean, Piché, Joseph; Hamilton (W.) and Idsardi, equal; Mundy, Bedwell, McIntosh, Moffat, Bray.

THERMODYNAMICS.

FOURTH YEAR.—(*Electrical Engineering Course.*)—*Class I.*—Cole, McCloskey. *Class II.*—McDougall, Cardew, Devlin. *Class III.*—Wurtele, Scott, Marrotte, Wenger, Dutcher. (*Mechanical Engineering Course.*)—*Class I.*—None. *Class II.*—Chaplin, Drysdale, Kemp. *Class III.*—Greey, Wilkes.

THIRD YEAR.—*Class I.*—Mooney; Leonard and Sutherland, equal. *Class II.*—Miner, MacMillen, Cockshutt, Gillies, Turnbull,. *Class III.*—Fraser, Gibbs, Gillespie.

TRANSPORTATION.

THIRD YEAR.—*Class I.*—None. *Class II.*—Sharpe, Forbes, Blanchet.

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* *To pass Supplemental on second paper.*
† *To pass Supplemental on first paper.*

Faculty of Medicine.

SESSION 1903-1904.

HONOUR AND CLASS LISTS.

The total number of students registered in the Faculty of Medicine for the Session 1903-1904 was made up as follows:—

First Year	108
Second Year	106
Third Year	88
Fourth Year	100
	402
Graduates in attendance	13
Total	415

Of whom there were from

Ontario	126
Quebec	99
New Brunswick	44
Prince Edward Island	19
United States	42
West Indies	9
Newfoundland	8
Nova Scotia and Cape Breton	36
British Columbia	17
Manitoba and North-West Territories	12
England	1
British Guiana	1
Persia	1
	415

FOURTH YEAR.

PRIZE LIST.

HOLMES GOLD MEDAL, for highest aggregate in all subjects forming the Medical Curriculum.

J. A. Nutter, B.A., Montreal, Que.

FINAL PRIZE for highest aggregate in the Fourth Year subjects,
J. L. Robinson, St. Marys, Ont.

McGILL MEDICAL SOCIETY SENIOR PRIZES:

First Prize: V. L. Miller, B.A.
Second Prize: J. A. Nutter, B.A.

HONOURS IN AGGREGATE OF ALL SUBJECTS.

1 Robinson, J. L. . .
2 Nutter, J. A., B.A.
3 Lincoln, W. A.
4 Meakins, J, C.
5 Miller, V. L., B. A.
6 McKenty, F.
7 Fyshe, J. C., A.B.
8 Coffin, J. W.
9 Gillis, J. E.
10 Faulkner, J. A., B.A .

SURGERY HONOURS.

1 Robinson, J. L.
2 Martin, J. C.
3 Fyshe, J. C., A.B.
Meakins, J. C.
5 Lincoln, W. A.
6 Coffin, J. W. .
7 Yorston, F. P., M.A.
8 Charman, F. D.
Cook, W. J.
10 Gillis, J. E.
Lippiatt, H. T.
12 MacIntosh, L. de C.
Nutter, J. A., B.A.
14 Hutchinson, J. W.
McKenty, F.
Reford, L. L., B.A.
17 Bentley, J. S., B.A.
Miller, V. L., B.A.
19 Ford, H. S.
20 Kerr, H. H.
21 Rankin, A. C.
22 Grant, N. P.
23 McLachlan, D. C.
24 Chipman, W. W.
Faulkner, J. A., B.A.

MEDICINE—HONOURS.

1 Robinson, J. L.
2 Meakins, J. C.
3 Lincoln, W. A.
4 Dillon, W. P.
5 Fyshe, J, C., A.B.
Gillis, J. E.
Nutter, J. A., B.A.
8 Grant, N. P.
9 Miller, V. L., B.A.
10 Rogers, J. T., B.A.
11 Hutchinson, J. W.
12 McKenty, F.
13 Rankin, A. C.

CLINICAL SURGERY—HONOURS.

1 Robinson, J. L.
2 Martin, J. C.
Nutter, J. A., B.A.
4 Yorston, F. P., M.A.
5 Lincoln, W. C.
6 McKenty, F.
7 Hutchinson, J. W.
8 Fyshe, J. C., A.B.
Gibson, R.
Johnson, J. G. W., M.A.
Miller, V. L., B.A.
12 Grant, N. P.
13 Quain, B. P.
14 Coffin J. W.
Ford, H S.
McIntosh, L. de C.
Reford, L. L., B.A.
18 Kerr, H. H.
19 McLachlan, D. C.
Meakins, J. C.
21 Lippiatt, H. T.
22 Richardson, C. A.
Richardson, C. A. C., B.A.

OPTHALMOLOGY—HONOURS.

1 Nutter, J. A., B.A.
2 Johnson, J. G., W.M.A.
3 Ainley, W. E., B.A.
4 Chipman, W. W.
5 Faulkner, J. A., B.A.
6 Crowell, B. C., B.A.
7 Coffin, J. W.
8 MacIntosh, L. de C.
9 Cook, W. J.
10 Miller, V. L., B.A.

PATHOLOGY—HONOURS.

1 Nutter, J. A., B.A.
2 Robinson, J. L.
3 McKenty, F.
4 Lippiatt, H. T.
5 Rankin, A. C.
6 Fyshe, J. C., A.B.
7 Losier, A. J.
Sellery, A. C., Ph.B.
9 Faulkner, J. A., B.A.
10 Chipman, W. W.
Dillon, W. P.
Reford, L. L., B.A.
13 Johnson, J. G. W., M.A.
Meakins, J. C.
15 Harrison, L. L., B.A.
16 Judson, A. H.
17 Howitt, H. O.
18 Gilroy, J. R.
Richardson, C. A.
20 Lincoln, W. A.
21 Davidson, H. D. J.,
McLachlan, D. C.
Warwick, W.
24 Lauchland, L. C., B.A.
26 Miller, V. L., B.A.
Black, J. C.
Eaton, C. E.
Gillis, J. E.
MacIntosh, L. de C.
Price, J.

GYNAECOLOGY—HONOURS.

1 Gilroy, J. R.
2 Meakins, J. C.
3 Robinson, J. L.
4 Lincoln, W. A.
5 Wright, G. A.
6 McKenty, F.
7 Kerr, H. H.
8 Nutter, J. A., B.A.
9 Grant, N. P.
10 Faulkner, J. A., B.A.
11 Douglas, E., B. A.
12 Miller, V. L., B.A.
13 Martin, J. C.
14 Charman, F. D.
Fyshe, J. C., A.B.
Rankin, A. C.
17 Stewart, J. A.

OBSTETRICS—HONOURS.

1	Nutter, J. A., B.A.	8	Robinson, J. L.
2	Miller, W. L., B.A.	9	Meakins, J. C.
3	McLachlan, D. C.	10	Charman, F. D.
4	Coffin, J. W.	11	Dunn, J. F.
	Murphy, H. H., B.A.	12	Alford, J. H.
6	Faulkner, J. A., B.A.		Gibson, R.
	Martin, J. C.		Keys, M. J.

MENTAL DISEASES—HONOURS.

1	Charman, F. D.	13	MacKenzie, A. B
2	Gillis, J. E.	14	Dunn, J. F.
3	MacIntosh, L. de C.	15	Cook, W. J.
4	Fyshe, J. C., A.B.	16	MacKid, L. S.
5	Crowell, B. C., B.A.		Robinson, J. L.
6	Chipman, W. W.		Stewart, J. A.
7	Rankin, A. C.	19	Bonin, R. P.
8	Nutter, J. A., B.A.		Murphy, H. H., B.A.
	Rogers, J. T., B.A.	21	Faulkner, J. A., B.A.
10	Coffin, J. W.		Lauchland, L. C., B.A.
11	Keys, M. J.	23	Davidson, H. D. J.
	Lippiatt, H. T.		Ford, H. S.

The following gentlemen have completed the course and passed the necessary examinations, entitling them to the diploma of Public Health.

DIPLOMA OF PUBLIC HEALTH :

1 Dr. F. C. Douglas, Montreal.
Dr. J. A. Lundie, B.A., Montreal.

PASS LIST.

FINAL SUBJECTS.

The following gentlemen, 82 in number, have fulfilled all the requirements to entitle them to the degree of M.D., C.M. from the University. In addition to the primary subjects they have passed a satisfactory examination, both written and oral, in the following subjects:—Principles and Practice of Surgery, Theory and Practice of Medicine, Obstetrics and Diseases of Women and Children, Pharmacology and Therapeutics, Medical Jurisprudence, Practical and General Pathology, Bacteriology and Hygiene; and also clinical examinations in Medicine, Surgery, Obstetrics, Gynæcology and Ophthalmology, conducted at the bedside in the hospital:—

Ainley, L. J., B.A. ..... Almonte, Ont.
Ainley, W. E., B.A. ..... Hamilton, Bermuda.
Alford, J. H. ..... Ottawa, Ont.
Atkinson, H. S. ..... Hants Harbor, Newfoundland.
Bentley, S. K., B.A. ..... Truro, N. S.
Black, J. C. ..... Oxford, Ont.
Bonin, R. P. ..... Montreal, Que.
Charman, F. D. ..... Wallace, N. S.
Chipman, W. W. ..... Ottawa, Ont.
Coffin, J. W. ..... Mount Stewart, P. E. I.
Cook, W. J. ..... Coboconk, Ont.
Crack, I. E., B.A. ..... Kingsbury, P. Q.
Cram, W. J. ..... Philadelphia, Pa.
Crosby, P. C. ..... Marshfield, P. E. I.
Crowell, B. C., B.A. ..... Yarmouth, N. S.
Davidson, H. D. ..... Sherbrooke, Que.
Dillon, W. P. ..... Iroquois, Ont.
Douglas, E., B.A. ..... Halifax, N.S.
Dunn, J. F. ..... Elgin, Ont.
Eaton, C. E. ..... Stanbridge, Que.
Faulkner, J. A., B.A. ..... Stirling, Ont.
Fisher, E. M. ..... Blue Bonnets, Que.
Fisher, F. ..... Bay of Islands, Newfoundland.
Folkins, C. G. ..... Millstream, N. B.
Ford, H. S. ..... Vancouver, B. C.
Fraser, S. ..... Leeds, Que.
Fyshe, J. C., A.B. ..... Montreal, Que.
Gibson, G. M. ..... Huntingdon, N. Y.

Gibson, R. ..... Nanaimo, B. C.
Gillis, J. E. ..... Darlington, P. E. I.
Gilroy, J. R. ..... Springhill, N. S.
Gormely, J. C. ..... Finch, Ont.
Graham, R. W. ..... Sawyerville, Que.
Grant, N. P. ..... Woodstock, N. B.
Greenwood, W. T. ..... St. Catherines. Ont
Harrison, L. L., B.A. ..... Maccan, N. S.
Hogan, F. J. ..... Tignish, P. E. I.
Hotchkiss, E. A. ..... Collinsville, Conn.
Howitt, H. O. ..... Guelph, Ont.
Hutchinson, J. W. ..... Montreal, Que.
Johnson, J. G. W., M.A. ..... Montreal, Que.
Judson, A. H. ..... Lynn, Ont.
Kerr, H. H. ..... Washington, D.C.
Keys, M. J. ..... Hulbert, Ont.
Lauchland, L. C., B.A. ..... Oshawa, Ont.
Lincoln, W. A. ..... Stanstead, Que.
Lippiatt, H. T. ..... Montreal. Que.
Losier, A. J. ..... Tracadie, N. B.
MacKenzie, A. B. ..... Springfield, P. E. I.
MacKid, L. S. ..... Calgary, Alta.
MacIntosh, L. de C. ..... Dundela, Ont.
McKenzie, R. P. ..... Rossland, B.C.
McKenty, F ..... Bath, Ont.
MacLachlan, D. C. ..... Lochaber Bay, Que.
Markson, S. M. ..... Glen Robertson, Ont.
Martin, J. C. ..... Whitechurch, Ont.
Meakins, J. C. ..... Hamilton, Ont.
Miller, Clarence. ..... Stellarton, N. S.
Miller, V. L., B.A. ..... Bear River, N. S.
Murphy, H. H., B. A. ..... Antrim, Ont.
Nagle, S. M. ..... Almonte, Ont.
Nutter, J. A., B.A. ..... Montreal, Que.
Park, A. W ..... Durham. Ont.
Preston, C. E. ..... Ottawa, Ont.
Price, Joseph. ..... Campbellton, N. B.
Quain, B. P. ..... Brushton, N. Y.
Rankin, A. C. ..... Montreal, Que.
Reford, L. L., B.A. ..... Montreal, Que.
Richardson, C. A. ..... East Jefferson, Maine.
Richardson, C. A. C., B.A. ..... Sydney, C. B.
Robinson, J. L. ..... St. Marys, Ont,
Rogers, J. T., B.A. ..... Montreal, Que.
Sellery, A. C. ..... Kincardine, Ont
Sims, H. A. ..... Montreal, Que.

Stewart, J. A.....Norboro, P. E. I.
Tanner, C. A. H. .....Windsor Mills, Que.
Warwick, W.....St. John, N. B.
Wilson, O. M. .....Smith Falls, Ont.
Wilson, T. R., B.A.....Carp, Ont.
Wood, H. G.....Faribault, Minn.
Wright, G. A. .....Stoney Creek, N. B.
Yorston, F. P., M.A.....Newcastle, N. B.

PASSED AT CHRISTMAS, 1903.

Blakeman, F. W. .....Stratford, Ont.
Carnochan, W. L. C.....Montreal, Que.
Dickson, W. H. .....Pembroke, Ont.
Smith, C. M. .....Red Mountain, Que.

THIRD YEAR.

PRIZE LIST.

THIRD YEAR PRIZEMAN,
H. C. Mersereau, Doaktown, N. B.

SUTHERLAND MEDALLIST:
J. H. MacDermot, Gordontown, Jamaica, B. W. I.

McGILL MEDICAL SOCIETY JUNIOR PRIZES :
First Prize, F. J. Tees, B.A.
Second Prize, R. J. Monahan.

HONOURS IN AGGREGATE OF ALL SUBJECTS.

1 Mersereau, H. C.
2 MacDermot, J. H.
3 Leslie, H. A.
4 Tees, F. J., B.A.
5 Burgess, H. C.
6 Scrimger, F. A. C., B.A.
7 Moffatt, C. F., B.A.
8 Nelles, T. R. B.
9 Dykes, W.
10 MacLean, J. D.
11 Tull, J. A. C.
12 Munro, J. A.
Richards, E. T. F.
14 Muckleston, H. S., M.A.
15 Hanington, J. W. B.
16 Henderson, E. H., B.A.
17 Cumming, A., B.A.
18 Robertson, B. W.
19 Mason, J. H.
20 Pruyn, W. G., B.A.

CLINICAL SURGERY—HONOURS.

1 MacLean, J. D.
2 Covernton, C. F., Ph.B.
Henderson, E. H., B.A.
Nelles, T. R. B.
Tees, F. J., B.A.
Viner, N., B.A.
7 Burgess, H. C.
Chisholm, H. A.
Dykes, W.
Wilkinson, W. M.
11 Leslie, H. A.
McNaughton, W. B
Mason, J. H.
Robertson, A. R.
Scott, W. J., ,B.A.
16 Brown, F. F.
Cameron, A. B.
Conner, E. L.
Hanington, D. P.
Hanington, J. W. B.
Likely, D. S., B.A.
MacDonald, J. P.
McIntosh, G. J.
Mersereau, H. C.
Munro, J. A.
McMurtry, W. C.
Moffatt, C. F., B.A.
Scrimger, F. A. C., B.A
Seifert, F. W., B.A.

PATHOLOGY—HONOURS.

1 MacDermot, J. H.
2 Mersereau, H. C.
3 Tull, J. A. C.
4 Tees, F. J., B.A.
Scrimger, F. A. C., B.A.
6 Hanington, J. W. B.
Ryan, L. McD., B.A.
Viner, N., B.A.
9 Moffatt, C. F., B. A.
10 Richards, E. T. F.
11 MacLean, J. D.
12 Muckleston, H. S., M.A
13 Young, C. A.
14 Nelles, T. R. B.
15 Burgess, H. C.
16 Cumming, A., B.A.
Leslie, H. A.
18 Dykes, W.
19 Robertson, B. W.
20 Styles, W. A. L.
21 Hanington, D. P.

THERAPEUTICS—HONOURS.

1 Moffatt, C. F., B.A.
2 Burgess, H. C.
3 Dykes, W.
Leslie, H. A.
5 Mersereau, H. C.
6 Hanington, D. P.
Munro, J. A.
8 Hume, G. M.
MacDermot, J. H.
10 Hanington, J. W. B.
11 Tull, J. A. C.
12 Alguire, A. R.
13 Mason, J. H.
Nelles, T. R. B.
Styles, W. A. L.
16 Richards, E. T. F.
Viner, N., B.A.
18 Tees, F. J.,B.A.
19 Brown, F. F.
20 Robertson, B.W.
21 Likely, D.S., B.A.
22 Muckleston, H. S., M.A.
Scrimger, F. A. C., B. A.
24 Miller, A. P.
Pruyn, W. G., B.A.
Ryan, L. McD., B.A.

OBSTETRICS—HONOURS.

1 Chisholm, H. A.
2 Henderson, E. H., B.A.
3 Cumming, A., B.A.
Muckleston, H. S., M.A.
Robertson, A. R.
Scrimger, F. A. C., B.A.
Wood, G. O.
8 Connor, E. L.
Geddes, R. W.
Richards, E. T. F.
11 Burgess, H. C.
Hume, G. H.
Likely, D. S., B.A.
14 Costello, W. J., B.A.
Leslie, H. A.
MacKay, M. E.
Tees, F. J., B.A.
18 Brown, F. F.
Gill, F. D.
MacDermot, J. H.
Mersereau, H. C.
Pruyn, W. G., B.A.
Tull, J. A. C.
24 Hanington, D. P.
McNaughton, W. B.
Mercer, T. C.
Styles, W. A. L
Ryan, L. McD., B.A.
Viner, N., B.A.
30 Brown, G. T.
Finigan, J. F.
MacLean, J. D.

OBSTETRICS—HONOURS—Continued.

Mohr, F. W. C.
Mulligan, J. W.
Petersky, S.

36 Loggie, W. S.
Munro, J. A.
Seifert, F. W., B.A.
Turnbull, E. G.

HYGIENE—HONOURS.

1 MacDermott, J. H.
2 Mersereau, H. E.
3 Burgess, H. C.
4 Nelles, T. R. B.
5 Leslie, H. A.
6 Munro, J. A.
7 Cumming, A., B.A.
Moffatt, C. F., B.A.
9 Viner, N., B.A.
10 Loggie, W. S.
11 Hanington, J. W. B.
12 Scrimger, F. A. C., B.A.
13 Heagerty, J. J.
Prendergast, A. R., B.A.
15 Richards, E. T. F.
16 Grimmer, R. D.
Mason, J. H.
Muckleston, H. S., M.A.
Tees, F. J., B.A.

20 MacLean, J. D.
Mercer, T. C.
22 Dykes, W.
23 Petersky, S.
24 Sinclair, E. E.
25 Turnbull, E. G.
26 Young, C. A.
27 Henry, E. G., B.A.
28 Brown, G. T.
29 Gill, F. D.
Henderson, E. H., B.A.
Robertson, B. W.
32 Sullivan, J. A.
33 Ryan, L. McD., B.A.
34 McNaughton, W. B.
35 Pruyn, W. G., B.A.
36 Finigan, J. F.
37 Styles, W. A. L.
38 Tull, J. A. C.

CLINICAL MEDICINE—HONOURS.

1 Leslie, H. A.
2 Burgess, H. C.
3 Brown, F. F.
Hume, G. M.
McDonald, J. A., B.A.
6 Likely, D. S., B.A.
7 Henderson, E. H., B.A.
Romell, E.
9 Alguire, A. R.
10 McLean, J. D
11 Heagerty, J. J.
12 McMurtry, S. O., B.A.
Robertson, A. R.
Wilkinson, W. M.

15 Henry, E. G., B.A.
16 Connor, E. L.
Covernton, C. F., Ph.B.
McNaughton, W. B.
19 Ryan, L. Mc D., B.A.
20 Loggie, W. S.
Mason, J. H.
Mersereau, H. C.
Pruyn, W. G., B.A.
Scrimger, F. A. C., B.A.
Sinclair, E. E.
Tees, F. J., B.A.
Tull, J. A. C.
Young, C. A.

MEDICAL JURISPRUDENCE—HONOURS.

1 Tees, F. J., B.A.
2 Mersereau, H. C.
3 Ryan, L. Mc D., B.A.
4 Moffatt, C. F., B.A.
5 Leslie, H. A.
Nelles, T. R. B.
7 Mason, J. H.
Muckleston, H. S., M.A.
Robertson, A. R.
10 Dykes, W.
Likely, D. S., B.A.
Pruyn, W. G., B.A.
Scrimger, F. A. C., B.A.
14 Burgess, H. C.
Cumming, A., B.A.
Loggie, W. S.
MacLean, J. D.
Robertson, B. W.

BACTERIOLOGY—HONOURS.

1 MacDermot, J. H.
2 Scrimger, F. A. C., B.A.
3 Heagerty, J. J.
4 Munro, J. A.
5 Loggie, W. S.
Mersereau, H.C.
7 Scott, W. J., B.A.
8 Robertson, A. R.
Robertson, B. W.
10 Nelles, T. R. B.
Pruyn, W. G., B.A.
12 McNaughton, W. B.
13 Muckleston, H. S., M.A.
14 Henderson, E. H., B.A.
15 Tees, F. J., B.A.
16 Dykes, W.
Tull, J. A. C.
18 Brown, F F.

THIRD YEAR PASS LIST.

ALL SUBJECTS.

The following students, 72 in number, have passed in all the subjects of the Third Year, viz.:—Pathology, Pharmacology and Therapeutics, Hygiene, and Bacteriology, Medical Jurisprudence, Medicine, Surgery and Obstetrics.

Alguire, A. R.
Arnold, D. R.
Brown, F. F.
Burgess, H. C.
Chisholm, H. A., B.A.
Connor, E. L.
Costello, W. J., B.A.
Covernton, C. F., Ph.B.
Crosby, P. C.
Cumming, A., B.A.
Duggan, R. G.
Dykes, W.
Finigan, J. F.
Geddes, R. W.
Gill, F. D.
Gillis, J. H.
Graham, R. W.
Hanington, D. P.
Hanington, J. W. B.
Heagerty, J. J.
Henderson, E. H., B.A.
Hogan, F. J.
Hotchkiss, E. A.
Hume, G. M.
Leslie, H. A.
Likely, D. S., B.A.
Loggie, W. S.
MacDermot, J. H.
MacLean, J. D.
McDonald, J. A., B.A.
MacKid, L. S.
McMurtry, S. O., B.A.
McMurtry, W. C.
McNaughton, W. B.
McLeod, W. A.
Markson, S. M.
Mason, J. H.
Mercer, T. C.
Mersereau, H. C.
Miller, A. P.
Moffatt, C. F., B.A.
Mohr, F. W. C.
Muckleston, H. S., M.A.
Mulligan, J. W.
Munro, J. A.
Nelles, T. R. B.
Petersky, S.
Pruyn, W. G., B.A.
Richards, E. T. F.
Robertson, A. R.
Robertson, B. W.
Rommel, E.
Sawyer, A. R.
Scott, W. J., B.A.
Scrimger, F. A. C., B.A.
Seifert, F. W., B.A.
Sims, H. A.
Sinclair, E. E.
Smith, W. A., B.A.
Styles, W. A. L.
Sullivan, J. A.
Tees, F. J., B.A.
Tull, J. A. C.
Turnbull, E. G.
Valin, R. E.
Waterman, C.
Wigle, C. A.
Wilkinson, W. M
Wilson, O. M.
Wilson, T. R., B.A.
Winder, J. B.
Wood, G. O.
Young, C. A.

In addition to those whose names appear on the above list as having passed in all the subjects of the Third Year, the following have passed in:—

PHARMACOLOGY AND THERAPEUTICS.

Brown, G. T.
Dougan, B. H.
Ewart, D.
Henry, E. G., B.A.
Hewitt, T. J.
King, S .S.
MacKay, M. E.
McIntosh, G. J.
Margolese, O.
Prendergast, A. R. B.A
Ryan, L. McD., B.A.
Viner, N., B.A.

PATHOLOGY.

Auld, J. W.
Brown, G. T.
Dougan, B. H.
Ewart, D.
Grimmer, R. D.
Henry, E. G., B.A.
MacDonald, J. P.
MacKay, M. E.
McIntosh, G. J.
Margolese, O.
Morgan, J. D.
Nathan, D.
Prendergast, A .R., B.A.
Risher, F. O.
Ryan, L.McD., B.A.
Somerville, H. A.
Sweeney, J. L., B.A.
Tierney, J. E.
Viner, N., B.A.

HYGIENE.

Auld, J. W.
Brown, G. T.
Cameron, A. B.
Dougan, B. H.
Ewart, D.
Grimmer, R. D.
Henry, E. G., B.A.
Hewitt, T. J.
King, S. S.
MacDonald, J. P.
MacKenzie, J.
McDonald, J. C.
McMicking, A. E. T.
Margolese, O.
Prendergast,A. R., B.A
Ryan, L. McD., B.A.
Somerville, H. A.
Tierney, J. E.
Viner, N., B,A.
Winfrey, W. C., B.L.

MEDICAL JURISPRUDENCE.

Auld, J. W.
Brown, G. T.
Cameron, A. B.
Dougan, B. H.
Dowler, W. H.
Ewart, D.
Grimmer, R. D.
Henry, E. G., B.A.
Hewitt, T. J.
King, S. S.
MacDonald, J. P.
MacKay, M. E.
MacKenzie, J.
McIntosh, G. J.
McMicking, A. E. T.
Margolese, O.
Morgan, J. D.
Prendergast, A. R.,B.A
Ryan, L. McD., B.A.
Somerville, H. A.
Sweeney, J. L., B.A.
Tierney, J. E.
Viner, N., B.A.

CLINICAL MEDICINE.

Auld, J. W.
Cameron, A. B.
Dougan, B. H.
Ewart, W.
Grimmer, R. D.
Henry, E. G., B.A.
Hewitt, T. J.
King, S. S.
MacKay, M. E.
McDonald, J. C.
McIntosh, G. J.
McMicking, A. E. T.
Margolese, O.
Ryan, L. McD., B.A.

CLINICAL SURGERY.

Auld, J. W.
Cameron, A. B.
Dougan, B. H.
Ewart, W.
Grimmer, R. D.
King, S. S.
MacDonald, J. P.
MacKay, M. E.
McDonald, J. C.
McIntosh, G. J.
McMicking, A. E. T.
Morgan, J. D.
Prendergast, A. R., B.A
Somerville, H. A.
Sweeney, J. L., B. A.
Tierney, J. E.
Viner, N., B.A.

OBSTETRICS.

Auld, J. W.
Brown, G. T.
Cameron, A. B.
Ewart, D.
Grimmer, R. D.
Henry, E. G., B.A.
Hewitt, T. J.
MacDonald, J. P.
MacKay, M. E.
McDonald, J. C.
McIntosh, G. J.
Margolese, O.
Prendergast, A.R., B.A
Ryan, L. McD., B.A.
Sweeney, J. L., B.A.
Tierney, J. E.
Viner, N., B. A.

BACTERIOLOGY.

Auld, J. W.
Blanchet, S. F. N.
Cameron, A. B.
Dougan, B. H.
Dowler, W. H.
Grimmer, R. D.
Henry, E. G., B.A.
Inksetter, F. S.
King, S. S.
MacDonald, J. P.
MacKay, M. E.
MacKenzie, J.
McDonald, J. C.
McIntosh, G. J.
McMicking, A. E. T.
Margolese, O.
Melik-Vartanian. H.
Morgan, J. D.
Nathan, D.
Prendergast, A.R., B.A.
Risher, F. O.
Ryan, L. McD., B.A.
Somerville, H. A.
Tierney, J. E.
Viner, N., B.A.

SECOND YEAR.

PRIZES AND HONOURS.

SECOND YEAR PRIZEMAN:
R. S. MacArthur, Summerside, P. E. I.

SENIOR ANATOMY PRIZE:
J. W. Turnbull, Springhill, Ont.

HONOURS IN AGGREGATE OF ALL SUBJECTS.

1 MacArthur, R. S.
2 Lomer, T. A.
3 Turnbull, J. W.
4 Shaw, R. McL., B.A.
5 Crowe, H. S., B.A.
6 Williams, C. S.
7 Hunter, A. W.
8 MacDonald, P. A.
9 Fraser, D. R.
10 Weldon, R. C. Jr.
11 Sheahan, J. J.
12 Gillies, G. E.

PHYSIOLOGY—HONOURS.

1 MacArthur, R. S.
2 Turnbull, J. W.
3 Crowe, H. S., B.A.
4 Donnelly, J. H.
5 Lomer, T. A.
6 Hunter, A. W.
7 Christie, H. H.
Fraser, D. R.
Williams, C. S.
10 Gillies, G. E.
11 Chandler, A. B.
Walsh, C. E.
13 Shaw, R. McL., B.A.

APPLIED MEDICAL CHEMISTRY—HONOURS.

1 Gurd, F. B.
Sheahan, J. J.
3 Shaw, R. McL., B.A.
4 Hillman, O. S.
Hunter, A. W.
Williams, C. S.
7 Greene, T. B., B.A.
Sims, H. L.
9 Crowe, H. S., B.A.
10 McMillan, J. A.
11 Fraser, D. R.
Johnson, B. F.
Robbins, E. E.
14 Lomer, T. A.
15 Mabee, O. R., Ph.B.
Turnbull, J. W.

HISTOLOGY—HONOURS.

1 Williams, C. S.
2 Allen, H. C. B.
Sheahan, J. J.
4 Fripp, G. D.
Hunter, A. W.

HISTOLOGY—HONOURS—Continued.

Lomer, T. A.
MacArthur, R. S.
MacDonald, P. A.
Walsh, C. E.
10 Christie, H. H.
Crowe, H. S.
Hillman, O. S.
Hunter, T. V.
Monahan, R. J.
Sims, H. L.
16 Clarke, F. C.
Green, T. B., B.A.
Gurd, F. B.
Mabee, O. R., Ph.B.
Mair, W. L.
Munroe, F. D.
Rothwell, O. E., B.A.
Turnbull, J. W.

ORGANIC CHEMISTRY.—HONOURS.

1 Peters, H. Le B., B.A.
2 Amberman, E. K.
Fraser, D. R.
4 Hillman, O. S.
5 Crowe, H. S., B.A.
6 MacDonald, P. A.
7 Joughins, J. L.
8 Flegg, R. F.
Hunter, A. W.
Kerfoot, H. W.
11 Allen, H. C. B.
Holden, C. P.
Mair, W. L.
14 Johnson, B. F.
Lomer, T. A.
Williams, C. S.
17 Wilson, A. A.
18 Gurd, F. B.
19 Groves, Osler M.
MacArthur, R. S.
Munroe, F. D.
Scott, W. H.
Turnbull, J. W.
24 Gillies, G. E.
25 Donnelly, J. H.
26 Clarke, F. C.
Hunter, J. D.
Malcolm, D. C.
Michaud, J. N.
Sawyer, C. D.
Trufant, L. H., A.B.
32 Field, B. R.
33 Christie, H. H.
Hollbrooke, R. E.
Kelly, A. E.
36 Green T. B., B.A.

ANATOMY—HONOURS.

1 Turnbull, J. W.
2 Lomer, T. A.
3 Mabee, O. R., Ph.B.
4 MacArthur, R. S.
MacDonald, P. A.
6 Shaw, R. McL., B.A.
7 Sims, H. L.
8 Hunter, T. V.
9 Keddy, O. B., B.A.
10 Weldon, R. C., Jr.
11 Allen, H. C. B.

PHARMACOLOGY—HONOURS.

1 Williams, C. S.
2 Lomer, T. A.
3 Donnelly, J. H.
Field, B. R.
14 Crowe, H. S., B.A.
Green, T. B., B.A.
Hunter, A. W.
Munroe, F. D.

PHARMACOLOGY—HONOURS.—(CONTINUED.)

3 MacDonald, P. A.
6 Forbes, A. E. G.
Gillies, G. E.
Joughins, J. L.
MacArthur, R. S.
Nathan, D.
Weldon, R. C.
12 Hillman, O. S.
Keddy, O. B., B.A.
14 Payne, G. A. L.
Walker, J. J., B.A.
20 Budyk, J. S.
Chandler, A. B.
Fraser, D. R.
Gurd, F. B.
Holden, C. P.
Kelly, A. E.
Parsons, W. H.
Patterson, W. J.
Sheahan, J. J.

PHARMACY—HONOURS.

1 Crowe, H. S., B.A.
2 Amberman, E. K.
Kelly, A. E.
4 Fraser, D. R.
Lomer, T. A.
MacArthur, R. S.
7 Allen, H. C. B.
Hillman, O. S.
Lindsay, E. A., B.A.
Williams, C. S.
11 Gillies, G. E.
12 Donnelly, J. H.
Michaud, J. N.
Scott, W. H.
Shaw, R. McL., B.A.
16 Green, T. B., B.A.
Holden, C. P.
Hunter, A. W.
Joughins, J. L.
Parsons, W. H.
Walker, J. J., B. A.
22 Weldon, J. R., Jr.
23 McPhee, J. T.
24 Christie, H. H.
Kerfoot, W. H.
26 Fraser, T. B.
Gurd, F. B.
MacDonald, P. A.
McArthur, C. O.
Mabee, O. R., Ph.B.
Munro, F. D.
Patterson, W. J., B.A.
Payne, G. A. L.
Sheahan, J. J.
Sims, H. L.
Wilson, A. A.
Wolff, E. K., B.A.

SECOND YEAR PASS LIST.

ALL SUBJECTS.

The following gentlemen, 83 in number, have completed their Second Year Examinations, which comprise the following subjects:—Anatomy, Practical Anatomy, Organic Chemistry, Applied Medical Chemistry, Physiology, Practical Physiology, Histology, Pharmacy and Pharmacology.

Allen, H. C. B.
Amberman, E. K.
Auld, J. W.
Bonelli, V., Jr.
Brown, G. T.
Cameron, A. B.
Chandler, A. B.
Christie, H. H.
Covernton, C. F.
Crowe, H. S., B.A.
Donnelly, J. H.
Duggan, R. G.
Ewart, D.
Field, B. R.
Flegg, R. F.
Folkins, C. G.
Forbes, A. E. G.
Fraser, D. R.
Garcelon, W. S., A.B.
Gillies, G. E.
Gourley, H. B., Ph.B.
Green, T. B., B.A.
Gurd, F. B.
Hanington, J. W. B.
Hardy, A. N.
Henderson, S. . .
Henry, E. G., B.A.
Hillman, O. S.
Holden, C. P.
Howlett, G. P.
Hunter, A. W.
Hunter, T. V.
Johnson, B. F.
Keddy, O. B., B.A.
Kelly, A. E.
Kerfoot, H. W.
King, S. S.
Kinloch, C. A.
Loggie, W. S.
Lomer, T. A.
MacArthur, R. S.
MacDonald, P. A.
MacKay, M. E.
MacLean, J. D.
MacDonald, J. P.
MacKid, L. S..
MacLeod, J. M.
McDiarmid, J. S.
McDonald, J. C.
McMicking, A. E. T.
McMillan, J. A.
McNaughton, G. K.
Mabee, O. R., Ph.B.
Mair, W. L.
Malcolm, D. C.
Munroe, A. R.
Munroe, F. D.
Nathan, D.
Parsons, W. H.
Patterson, W. J., B.A.
Petersky, S.
Ralph, A. J., Ph.B.
Robbins, E. E.
Rommel, E.
Rothwell, O. E., B.A.
Sawyer, A. R.
Shaw, R. McL., B.A.
Sheahan, J. J.
Sims, H. L.
Sweeney, J. L.
Somerville, H. A.
Tilley, A. R.
Turnbull, J. W.
Walker, J. J., B.A.
Walsh, C. E.
Waterman, C.
Weldon, R. C., Jr.
White, J. H.
Wilkinson, W. M.
Williams, C. S.
Wilson, A.
Wood, G. O.

In addition to those whose names appear on the above list, as having passed in all the subjects of the Second Year, the following have passed in:

PHARMACY.

Bayley, A. H.
Budyk, J. S.
Fraser, T. B.
Fripp, G. D.
Gray, E. H.
Gross, C. J.
Groves, Osler M.
Hand, W. T.
Hollbrook, R. E.
Joughins, J. L.
Lindsay, E. A., B.A.
McArthur, C. O.
McPhee, T. J.
Michaud, J. N.
Monahan, R. J.
Payne, G. A. L.
Peat, G. B.
Ritchie, C. A., B.A.
Ryan, E. J.
Scott, W. H.
Wolff, E. K., B.A.
Young, A. MacG., B.A.

PHARMACOLOGY.

Bayley, A. H.
Budyk, J. S.
Burke, G. H.
Dearborn, H. F.
Fraser, T. B.
Fripp, G. D.
Gray, E. H.
Gross, C. J.
Groves, Osler M.
Hackett, J. F., B.A.
Hand, W. T.
Hewitt, T. J.
Hils, O. H., B.L.
Hollbrooke, R. E.
Hunter, J. D.
Joughins, J. L.
Lyon, G. R. D.
McArthur, C. O.
McCormick, A. S.
McDonald, J. N.
McPhee, T. J.
Michaud, J. N.
Monahan, R. J.
Muir, D. H., Jr.
Payne, G. A. L.
Risher F. O.
Ryan, E. J.
Scott, W. H.
Wolff, E. K., B.A.
Young, A. MacG., B.A.

HISTOLOGY.

Bayley, A. H.
Budyk, J. S.
Burke, G. H.
Clarke, F. C.
Cole, W. H.
Dearborn, H. F.,
Fraser, T. B.
Fripp, G. D.
Gross, C. J.
Gunn, A. K.
Hackett, J. F., B.A.
Hand. W, T.
Hils, O. H., B.L.
Hollbrooke, R. E.
Huycke, A. H.
Lindsay, E. A., B.A.
Lyon, G. R. D.
MacCallum, G. D.
MacArthur, C. O.
McCormick, A. S.
McDonald, J. N.
McDougald, W. L.
McPhee, T. J.
Michaud, J. N.
Monahan, R. J.
Muir, D. H., Jr.
Muir, W. L., B. A.
Payne, G. A. L.
Peat, G. B.
Risher, F. O.
Ritchie, C. A., B.A.
Scott, W. H.

ANATOMY.

Baylay, A. H.
Burke, G. H.
Gray, E. H.
Groves, Osler M.
Hackett, J. F., B.A.
Hand, W. T.
Hollbrooke, R. E.
Hunter, J. D.
Joughins, J. L.
MacCallum, G. D.
McArthur, C. O.
McDougald, W. L.
McPhee, T. J.
Muir, W. L., B.A.
Raftery, C. R.
Risher, F. O.
Ritchie, C. A., B.A.
Young, A. MacG., B.A.

PHYSIOLOGY.

Bayley, A. H.
Budyk, J. S.
Burke, G. H.
Dearborn, H. F.
Fairie, J. A.
Fraser, T. B.
Fripp, G. D.
Gross, C. J.
Groves, Osler M.
Hackett, J. F., B.A.
Hollbrooke, R. E.
Hunter, J. D.
Huycke, A. H.
Joughins, J. L.
Lindsay, E. A., B.A.
Lyon, G. R. D.
McArthur, C. O.
McDonald, J. N.
McDougald, W. L.
McPhee, T. J.
Michaud, J. N.
Monahan, R. J.
Morgan, J. D.
Muir, W. L., B.A.
Payne, G. A. L.
Peat, G. B.
Raftery, C. R.
Risher, F. O.
Ritchie, C. A., B.A.
Ryan, E. J.
Scott, W. H.
Wolff, E. K., B.A.
Young, A. MacG.

APPLIED MEDICAL CHEMISTRY.

Dearborn, H. F.
Fraser, T. B.
Fripp, G. D.
Gross, C. J.
Groves, Osler M.
Hackett, J. F., B.A.
Hils, O. H., B. L.
Hunter, J. D.
Huycke, A. H.
Lyon, G. R. D.
MacCallum, G. D.
McDonald, J. N.
McDougald, W. L.
Michaud, J. N.
Monahan, R. J.
Morgan, J. D.
Muir, W. L., B.A.
Payne, G. A. L.
Peat, G. B.
Ryan, E. J.
Seifert, F. W., B.A.
Scott, W. H.
Wallace, C. T.
Young, A. MacG., B.A.

ORGANIC CHEMISTRY.

Bayley, A. H.
Bray, D. G.
Burke, G. H.
Clarke, F. C.
Dearborn, H. F.
Elliott, M. H.
Fraser, T. B
Fripp, G. D.
Gross, C. J.
Groves Osler, M
Hackett, J. F., B.A.
Hand, W. T.
Hils, O. H., B.L.
Hollbrooke, R. E.
Hunter, J. D.
Huycke, A. H.
Joughins, J. L.
MacCallum, D. G.
McArthur, C. O.
McCormick, A. S.
McDonald, J. N.
McDougald, W. L.
McPhee, T. J.
Michaud, J. N.
Monahan, R. J.
Muir, D. H., Jr.
Muir, W. L., B.A.
Oulton, M. A., B.A.
Payne, G. A. L.
Peters, H. Le B. B.A.
Peat, G. B.
Raftery, C. R.
Ryan, E. J.
Scott, W. H.
Trufant, L. H., A.B.
Wallace, C. T.
Young, A. MacG.
Sawyer, C. D.
Thomas, F. H.

FIRST YEAR.

PRIZES AND HONOURS.

FIRST YEAR PRIZEMAN:

R. M. Benvie, Salt Springs,(Pictou)N. S.

JUNIOR ANATOMY PRIZE:

R. M. Benvie, Salt Springs (Pictou), N. S.

HONOURS IN AGGREGATE OF ALL SUBJECTS.

1 Benvie, R. M.
2 Peters, H. LeB., B.A.
3 McNab, N. A.
4 Whitelaw, W. A.
5 Farris, H. A.
6 McLennan, A. L., B.A.
7 Lannin, G. E. J.
8 Thomson, J. W.
9 Healy, J. J.
Porter, J. F. S.
11 Rublee, O. E., B.A.
12 Edwards, W. F.
13 Trufant, L. H., A.B.
14 Landry, A. R.
15 Logie, F. G.

BACTERIOLOGY—HONOURS.

1 McNab, N. A.
2 Hawkins, Z.
3 Stephens, G. F.
4 Sinclair, G. W.
5 Keay, Thos.
6 Bernstein, D. H.
Edwards, W. F.
Locke, E. E.
9 Lannin, G. E. J.
10 McLennan, A. L., B.A.
11 Davis, S.
Peters, H. LeB., B.A.
13 Landry, A. R.
14 Blanchard, H. B.
Trufant, L. H., A.B.
16 Farris, H. A.
McCann, J. H.
Rublee, O. E., B.A.
Walsh, C. E.

INORGANIC CHEMISTRY—HONOURS.

1 Peters, H. LeB., B.A.
2 Trufant, L. H., A.B.
3 McNab, N. A.
Porter, J. F. S., B.A.
5 Farris, H. A.
Lannin, G. E. J.
7 Benvie, R. N.
Whitelaw, W. A.
9 Edwards, W. F.
10 Thomson, J. W.
11 Covey, H. W.
McLennan, A. L., B.A.
13 Rublee O. E., B. A.
14 Peltier, H. G.
15 Logie, F. G.
16 Landry, A. R.
17 Healy, J. J.
18 Brydone-Jack, F. W
Davis, S.
20 Eggert, C. A.
Robinson, R. C.
22 Arthur, J. R.

PRACTICAL CHEMISTRY—HONOURS.

1 Girvin, R. G.
Peters, H. Le B., B.A.
3 Porter, J. F. S.
Sawyer, C. A., A.B.
5 Thomson, J. W.
Whitelaw, W. A.
7 Blanchard, H. B.
Eggert, C. A.
McNab, N. A.
10 Lake, W. E.
11 Gray, W. E.
12 Enright, W. E., M.A.
Rublee, O. E., B. A.
14 Benvie, R. M.
Waddell, J. R.
16 Edwards, W. F.
17 Bernstein, D. H.
Healy, J. J.
Logie, F. J.
20 Oliver, C. W.
Stephens, G. F.
Trufant, L. H., A B
23 Wright, R. P.
24 Taylor, G. O.
25 Farris, H. A.
26 Arthur, J. R.
27 Brydone-Jack, F. W.
Carruthers, F. J.
Peltier, H. G.
Shankel, F. R.
31 Woodrow, J. B.

BIOLOGY—HONOURS.

1 Whitelaw, W. A.
2 Blanchard, H. B.
3 Farris, H. A.
Landry, A. R.
5 Holman, W. L., B.A.
Peters, H. Le B., B. A.
7 Benvie, R. M.
Edwards, W. F.
Porter, J. F. S.
Sinclair, G. W.
11 McNab, N. A.
12 Rublee, O. E., B.A
13 Thompson, J. W.
14 Enright, W. E., M.A

PHYSICS—HONOURS.

1 Peters, H. Le B., B.A.
2 Benvie, R. M.
3 Edwards, W. F.
4 Healy, J. J.
5 Oliver, C. W.
Thomson, J. W.
Whitelaw, W. A.
8 Coborn, J.
9 Porter, J. F. S.
10 Lamnin, G. E. J.
11 Davis, S.
Farris, H. A.
McNab, N. A.
14 Woodrow, J. B.
15 McLennan, A. L., B.A.
16 Arthur, J. R.
Blanchard, H. B.
Covey, H. W.
Lake, W. E.
Robinson, R. C.
21 Bechtel, A. D.
Landry, A. R
Rublee, O. E., B.A.
24 MacLachlan, W. W. G

PHYSIOLOGY—HONOURS.

1 Benvie, R. M.
2 Healy, J. J.
3 McNab, N. A.
4 Lannin, G. E. J.
5 Trufant, L. H., A.B.
6 Davis, S.
Farris, H. A.
McLennan, A. L., B.A.
Peters, H. Le B., B.A.

PRACTICAL ANATOMY—HONOURS.

1 McLennan, A. L., B.A.
Benvie, R M.
3 Whitelaw, W. A.
4 Johnson, A. L., B.A.
5 Trufant. L. H., A.B.
6 Carruthers, F. J.
Eggert, C. A.
McNab, N. A.
9 Arthur, J. R.
10 Healy, J. J.
Logie, F. G.
McCann, J. H.
13 Porter, J. F. S.
Sawyer, C. D., A.B.
Sinclair, G. W.
16 Quinn, F. P.
17 Brydone-Jack, F. W.
Lake, W. E.
MacLachlan, W. W. G.
Rublee, O. E., B.A.

HISTOLOGY—HONOURS.

1 Benvie, R. M.
2 Farris, H. A.
McLennan, A. L., B.A.
Peltier, H. G.
Peters, H. Le B., B.A.
Quinn, F. P.
Trufant, L. M., A.B.
8 Lake, W. E.
Landry, A. R.
Lannin, G. E. J.
Sawyer, C. D., A.B.
Waddell, J. R.
13 Hawkins, Z.
Sinclair, G. W.
Taylor, G. O.
16 Graham, D. W.
Johnson, A. L., B.A.
Logie, F. G.
McNab, N. A.
Thomson, J. W.
21 Adcock, J. P.
Bechtel, A. D.
Brydone-Jack, F. W.
Davis, S.
McCann, J. H.
Thomas, F. H.
Vesey, E. M.
Wilson, M. J.

FIRST YEAR PASS LIST.

ALL SUBJECTS.

The following students, 63 in number, have passed the examinations in all the subjects of the First Year, viz.:—Anatomy, Physics, Practical Chemistry and Inorganic Chemistry, Physiology, Histology, Biology and Bacteriology:—

Bechtel, A. D.
Benvie, R. M.
Bernstein, D. H.
Blanchard, H. B.
Bray, D. G.
Brydone-Jack, F. W.
Cameron, A. B.
Carruthers, F. J.
Christie, H. H.
Coborn, Josiah
Connor, E. L.
Covey, H. W.
Davis, S.
Donovan, B.
Edwards, W. F.
Eggert, C. A.
Farris, H. A.
Fraser, S. B.
Graham, D. W.
Gray, W. E.
Grier, R. T.
Hawkins, Z.
Healy, J. J.
Henderson, S.
Holman, W. L., B.A.
Johnson, A. L., B.A.
Kean, S. G.
Keay, Thos.
Kelly, A. E.
Lake, W. E.
Landry, A. R.
Lannin, G. E. J.
Locke, E. E.
Logie, F. G.
MacLachlan, W. W. G.
McDonald, J. N.
McLennan, A. L., B.A.
McLeod, W. A.
McNab, N. A.
Muir, D. H.
Oulton, M. A., B.A.
Peltier, H. G.
Peters, H. Le B., B.A.
Porter, J. F. S.
Quinn. F. P.
Robinson, R. C.
Ross, C. E.
Rublee, O. E., B.A.
Sawyer, C. D., A.B.
Shirreffs, H. S.
Sinclair, G. W.
Stephens, G. F.
Stevenson, A. B.
Taylor, G. O.
Thomas, F. H.
Thomson, J. W.
Trufant, L. H., A.B.
Waddell, J. R.
Whitelaw, W. A.
Wilson, A. A.
Wilson, M. J.
Woodrow, J. B.
Wright, R. P.

In addition to those whose names appear on the above list, as having passed in all the subjects of the first year, the following have passed in:—

HISTOLOGY.

Adcock, J. P.
Harry, A. C.
Gabie, W. G.
Gross, C. J.
Hils, H. O.
Lahey, J. J
McCann, J. H.
McNaughton, D. A.
Paterson, J. H.
Rabinovitch, M.
Ryan, E. J.
Sparks, J. J.
Speer, R. B.
Stein, S. F.
Tannebaum, D.
Vesey, E. M.
Young, A. MacG., B.A.

ANATOMY.

Arthur, J. R.
Dixon, J. A.
Enright, W. E., M.A.
Girvin, R. G.
Harry, A. C.
Kennedy, A. H. N.
Lynch, J. G. B.
McCann, J. H.
McCowen, G. R.
McGrath, M. J.
McKay, W. H.
McNaughton, D. A.
Mulgrew, T. B.
Paterson, J. H.
Rabinovitch, M.
Rodrigues, E. T
Shankel, F. R.
Sparks, J. J.
Tannenbaum, D.
Vesey, E. M.
Wallace, I.

PHYSIOLOGY.

Adcock, J. P.
Arthur, J. R.
Dixon, J. A.
Enright, W. E., M.A.
Gabie, W. G.
Girvin, R, G.
Gross, C. J.
Hils, H. O.
Lahey, J. J.
McCann, J. H.
McKay, W. H.
Rabinovitch, M.
Ryan, E. J.
Shankel, F. R.
Stein, S. F.

PHYSICS.

Adcock, J. P.
Arthur, J. R.
Brigham, E. S., B.Sc.
Dixon, J. W.
Enright, W. E., M.A.
Fraser, L. H.
Friel, Jos.
Girvin, R. G.
Hackett, J. F., B.A.
Harry, A. C.
McCann, J. H.
McCowen, J. R.
McKay, W. H.
McNaughton, D. A.
Oliver, C. W.
Paterson, J. H.
Rodrigues, E. T
Shankel, F. R.
Sparks, J. J.
Speer, R. B.
Stein, S. F.
Townsend, F. A.
Vesey, E. M.
Wallace, I.

PRACTICAL CHEMISTRY.

Adcock, J. P.
Arthur, J. R.
Brigham, E. S., B.Sc.
Carnell, A. H.
Dixon, J. A.
Enright, W. E., M.A.
Girvin, R. G.
Hackett, J. F., B.A.
Harry, A. C.
Hils, O. H.
Kennedy, A. H. N.
Lynch, J. G. B.
McCann, J. H.
McCowen, G. R.
McKay, W. H.
McNaughton, D. A.
Oliver, C. W.
Paterson, J. H.
Rodrigues, E. T.
Shankel, F. R.
Sparks, J. J.
Speer, R. B.
Stein, S. F.
Vesey, E. M.
Wallace, I.

INORGANIC CHEMISTRY.

Adcock, J. P.
Arthur, J. R.
Brigham, E. S., B.Sc
Dixon, J. A.
Enright, W. E., M.A.
Girvin, R. G.
Hackett, J. F., B.A.
Lynch, J. G. B.
McCowen, G. R.
Ryan, E. J.
Shankel, F. R.
Stein, S. F.
Vesey, E.M.

BOTANY.

Adcock, J. P.
Anderson, W. T.
Arthur, J. R.
Brigham, E. S., B.Sc.
Carnell, A. H.
Dixon, J. A.
Enright, W. E., M.A.
Fraser, L. H.
Freedman, A.
Girvin, R. G.
Harry, A. C.
Kennedy, A. H. N.
Lahey, J. J.
Lynch, J. G. B.
McCann, J. H.
McCowen, G. R.
McGarvey, O.
McGrath, M. J.
McKay, W. H.
McNaughton, D. A.
Mulgrew, T. B.
Newman, H.
Oliver, C. W.
Paterson, J. H.
Shankel, F. R.
Sparks, J. J.
Speer, R. B.
Stein, S. F.
Townsend, F. A.
Vesey, E. M.
Wallace, I.
Waugh, O. S.

ZOOLOGY.

Adcock, J. P.
Arthur, J. R.
Brigham, E. S., B.Sc.
Carnell, A. H.
Dixon, J. A.
Enright, W. E., M.A.
Fraser, L. H.
Girvin, R. G.
Harry, A. C.
Lahey, J. J.
Lynch, J. G. B.
McCann, J. H.
McCowen, G. R.
McNaughton, D. A.
Oliver, C. W.
Paterson, J. H.
Rodrigues, E. T.
Shankel, F. R.
Sparks, J. J.
Speer, R. B.
Stein, S. F.
Townsend, F. A.
Vesey, E. M.
Wallace, I.

BACTERIOLOGY.

Adcock, J. P.
Amberman, E. K.
Arthur, J. R.
Carnell, A. H.
Dixon, J. A.
Forbes, A. E. G.
Gabie, W. G.
Girvin, R. G.
Hardy, A. N.
Harry, A. C.
Lahey, J. J.
McCann, J. H.
McCowen, G. R.
McGrath, M. J.
McKay, W. H.
McNaughton, D. A.
Rabinovitch, M.
Rodrigues, E. T.
Shankel, F. R.
Sparks, J. J.
Speer, R. B.
Stein, S. F.
Tannenbaum, D.
Townsend, F. A.
Vesey, E. M.
Wallace, I.
Walsh, C. E.
Young, A. MacG.

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1904/05

McGill University, Montreal
Calendar

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